

Manufacturers Record

Exponent of America



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OCTOBER 6, 1927

The Creative Power of Chemistry.

No one could possibly study the exhibits at the annual Exposition of Chemical Industries in New York last week of a few of the myriad things which chemistry is doing without being deeply impressed, perhaps awed, at the revelations indicative of the achievements of chemistry.

Not many years ago it was thought that electricity offered perhaps the largest field for human endeavor in material things; but today the world is coming more and more to a realization of the creative power of chemistry, before which the thoughtful man must stand with head uncovered.

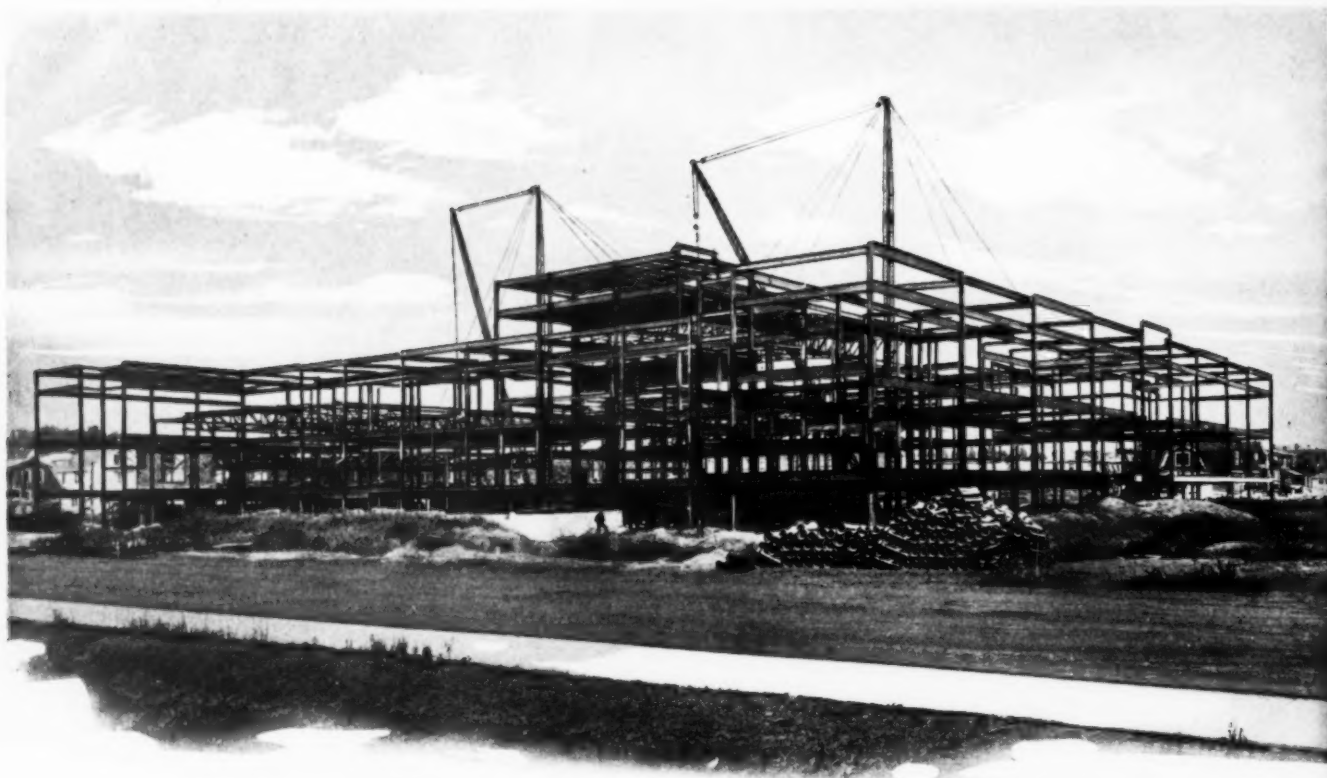
Day after day we learn of one achievement after another in chemistry. The miracle-like working power of chemistry opens up to medicine, to art, to industry, to agriculture, new fields of activity quite incomprehensible to the average man. As one development after another is made in new lines of work through the power of chemistry in medicine, in metallurgy, in synthetic products of almost every imaginable variety, creating new industries of many kinds and new employment for thousands of people, no man can dare say what may not yet be achieved.

Two articles in this week's issue barely skimming the surface of the marvels wrought by chemistry as shown in the Exposition of Chemical Industries, are suggestive of some of the changes that are rapidly taking place. One story tells of the possibility that synthetic wood, made out of cornstalks, will give new prosperity to the corn growers, while to some extent supplanting the wood that nature has provided. As to the feasibility of this on a commercial scale commensurate with the growing demand for lumber, there of course may be many questions. But when we have seen the former waste bagasse from sugar cane turned into building material with an ever increasing demand for the product, when we have seen one new industry after another established based on some chemical discovery, we can simply wonder what new development may come to pass.

The power of chemistry running through the cotton seed oil industry, through every line of metallurgy, and being steadily invoked in more and more industries, seems almost akin to that mighty power of the creator of all things, Who, when He planted Man upon the earth and breathed into him the breath of life, commanded him to "Subdue the earth". Every advance in chemistry and in all other activities of modern life, the telephone, the telegraph, the radio, are but fulfilling that Divine command "Subdue the Earth".

The industry which does not carry on aggressive chemical research work is doomed.

Chemistry has but begun its work. The womb of the future is pregnant with the possibilities beyond the power of the human mind to conceive.



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Manufacturers Record

EXPONENT OF AMERICA

Devoted to the Upbuilding of the Nation Through the Development
of the South and Southwest as the Nation's Greatest Material Asset

Trade-Name Registered in the U. S. Patent Office

Vol. XCII No. 14
Weekly.

BALTIMORE, OCTOBER 6, 1927.

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America's Amazing Advance and Its World Responsibilities.

ONE hundred years ago the Baltimore and Ohio Railroad was born. It is now celebrating that event without cost to the public in the greatest railroad exposition ever seen. This Centenary celebration is a good point from which to study something of the marvelous material progress that has been made in the United States in the 100 years which have passed since the first mile of railroad was built in the country. Here and there are to be found men and women who were born when the first railroad in America was projected. They have lived a hundred years. They have seen a stupendous progress difficult to comprehend.

It is not possible to give exact figures for this 100 years, as the Census reports do not cover the years 1827-1927, but broadly speaking we are able to present some illuminating facts as to what has been the material growth of this country in that hundred-year period.

As late as 1830, or but 97 years ago, there were only 23 miles of railroad lines in operation in the United States; this had increased by 1840 to 2818 miles. We now have over 250,000 miles of main line, with an aggregate of about 400,000 miles of track.

The area of the country in 1830 was 1,792,000 square miles. The area of continental United States is now over 3,000,000 square miles, to which might be added the area of Alaska, the Philippine Islands, Hawaii and Porto Rico.

We had a population in 1830 of 12,866,000 people; today we have a population of over 118,628,000.

As late as 1850 the total wealth of the United States was given by the census as \$7,135,000,000, an amount largely exceeded by at least two states in the South at the present time and compared with a total of about \$450,000,000,000 of wealth of the country in 1927.

The amount of money in circulation in 1830 was \$87,344,000. In 1925 it was \$7,533,000,000.

Federal expenditures in 1830 amounted to \$24,585,000, as compared with \$7,551,000,000 in 1925.

The development of our postal business is illustrated in the total postoffice revenue which as late as 1830 was only \$1,919,000, as against \$599,591,000 in 1925.

Our total foreign trade, exports and imports, in 1830 amounted to \$134,000,000, the exports in that year exceeding the imports by \$9,000,000. In 1926 the value of our exports and imports amounted to \$9,239,000,000.

The increase in the number of farms has not been in proportion to the marvelous expansion in many other lines of activities, although the increase in the value of farms has been very great. As late as 1850 we had 1,449,000 farms; in 1925 we had 6,372,000. The value of farm property in 1850

was \$3,967,000,000; in 1925 it had reached \$56,913,000,000.

The value of farm animals rose from \$544,000,000 in 1850 to \$4,675,000,000 in 1925.

The production of wheat in 1839 was 84,823,000 bushels and of corn 377,532,000 bushels, or a total for these two grains of 462,000,000 bushels. In 1926 the production of wheat was almost ten times that of 1839, or 832,000,000 bushels, and the production of corn was a little over seven times as much as the yield of 1839, the total of wheat and corn being 3,477,000,000 bushels.

In 1830 the country produced 732,000 bales of cotton. In 1926 the yield was 17,977,000 bales.

In 1830 the total production of coal in the United States was so triflingly small that it amounted to only 286,000 tons, and one naturally wonders how the 12,000,000 people of that day managed to get along with so small an amount. But the iron of that day was produced by charcoal and a large part of the manufacturing interests used wood for fuel. Against 286,000 tons of coal in 1830 we mined 663,000,000 tons in 1926.

Petroleum had not been discovered in 1830, but in 1926 our petroleum wells yielded a total of 766,000,000 barrels.

Of pig-iron the entire country produced in 1830 only 165,000 tons. In 1926 it made 39,373,000 tons.

In 1850 the total value of our manufactured products was \$1,019,000,000. In 1925 the value was \$62,705,000,000.

The accompanying summary shows a few outstanding facts put in tabular form, in order to impress our readers with some of the striking figures which we have quoted.

PROGRESS IN THE UNITED STATES.

Area, square miles (1830)...	1,792,223	3,026,789 (1927)
Population (1830)	12,866,000	118,628,000 (1927)
Wealth (1850)	\$7,135,780,000	\$450,000,000,000 (1927)
Money in circulation (1830)	\$87,344,000	\$4,736,000,000 (1925)
Governmental receipts (1830)	\$24,844,000	\$7,533,391,000 (1925)
Governmental expenditures (1830)	\$24,585,000	\$7,551,441,000 (1925)
Postoffice revenue (1830)...	\$1,919,000	\$599,591,000 (1925)
Exports (1830)	\$71,671,000	\$4,808,465,000 (1926)
Imports (1830)	\$62,721,000	\$4,430,890,000 (1926)
Number of farms (1850)...	1,449,000	6,372,000 (1925)
Value of farm property (1850)	\$3,967,344,000	\$56,913,567,000 (1925)
Value of farm animals (1850)	\$544,181,000	\$4,675,340,000 (1925)
Production wheat (bu.) (1839)	84,823,000	832,305,000 (1926)
Production corn (bu.) (1839)	377,532,000	2,645,031,000 (1926)
Production cotton, bales 500 pounds (1830)	732,000	17,977,000 (1926)
Production coal (tons) (1830)	286,000	663,290,000 (1926)
Production petroleum (bbls.) (1830)	766,504,000 (1926)
Pig-iron (tons) (1830).....	165,000	39,373,000 (1926)
Value manufactures (1850)	\$1,019,106,000	\$62,705,714,000 (1925)
Value cotton manufactures (1839)	\$46,350,000	\$1,714,367,000 (1925)
Railroad operating mileage (1830)	23	*251,407 (1926)

*Main line track only.

These few figures, however, do not begin to tell the story

of America's amazing advancement. They are merely suggestive of some outstanding features of the present as compared with a little less than a hundred years ago. Then the telegraph did not exist; the sewing machine had not been invented; the telephone and wireless telegraphy had not come into the dreams of the wildest dreamer. The automobile had never been thought of and but few of the modern inventions which have revolutionized all human affairs were among the things that even the most far-seeing scientist of those early days ever conceived as possibilities. Today we have about 85 per cent of all the automobiles in the world. We have about 40 per cent of all the railroad mileage in the world. We are producing of the great materials upon which business advancement is founded, anywhere from 50 to 60 per cent of the world's output and consuming about that proportion, while we have only 6 per cent of the world's population. Our advancement in educational work as measured by our expenditures has been in keeping with the advancement in material affairs.

Before such outstanding facts—beyond human comprehension—the thoughtful man must bow with a profound sense of thanksgiving to the Almighty for having given him the privilege of living in a land so marvelously endowed with natural advantages and so marvelously blessed with a system of government which has made possible this stupendous progress. The thoughtful man at the same time realizes we are only at the beginning of an era of research and invention and discovery which will make all that has been accomplished in the past seem but as child's play in contrast with what the coming years will show.

If we can but give to our people the right education, if we can stay the tendency of a "jazz age" to wild dissipation and false education, if we can stay the atheistic tendencies cropping up here and there in colleges and elsewhere and if we can crush the bolshevistic activities which are endangering the world, then, indeed, we may be safe in forecasting that within the next 25 years we shall in many material things surpass all that has been done in the last 100 years. It is well, however, for us as we boast of the marvelous things accomplished, as we contrast the abounding prosperity of America, the ever-growing power of its business interests and realize that we have but touched the very surface in our work of material advancement, to remember that "unto whom much has been given, of him shall much be required." Vain will be our boasting of material achievements unless we are able in the coming years to boast that we have taken the greatest raw material the Almighty has given to this country—its young people, its men and women—and trained them to the fullest utilization of their brain and soul power for the upbuilding of character. Well may we heed the lesson taught in the eighth chapter of Deuteronomy.

To the Chosen People of old, God sent a reminder that He had given them a land wherein they should eat bread without scarceness, wherein they should not lack anything and where blessings without end abounded, and then warning them that if when they had accumulated vast wealth they should boast in their heart that by the might of their own power and their own hands they had gotten this wealth, failing to remember that it was God who gave them the power to get wealth, he added:

"And it shall be, if thou do at all forget the Lord thy God, and walk after other gods, and serve them, and worship them, I testify against you this day that ye shall surely perish.

"As the nations which the Lord destroyeth before your face, so shall ye perish; because ye would not be obedient unto the voice of the Lord your God."

Has America any right to expect that the Almighty will deal more leniently with the people of this country, in view of all their boundless opportunities, than he dealt with his Chosen People of old when they had failed to remember that

the power to get wealth had been given to them by the Almighty and that due praise must be rendered unto Him for these blessings.

It is well for us as American citizens to study these facts, to study the rise and fall of nations in the past, to see the dangers which confront us in this jazz age and to make certain that the surface indications of a wrong trend in education and in governmental activities are only on the surface, and that beneath the surface the American people are sound to the core and the American Government safe to carry forward the mission of world advancement which has been committed to it. In boasting, therefore, of the marvelous material things we have achieved, in looking forward to the coming years, awed with the certainty that no man can say that anything is not possible which might in the past have staggered the imagination, let us seek to lay a firm and solid foundation for the advancement of civilization and the utilization of our vast opportunities in material things while utilizing to the fullest possible extent the inherent power for good in the greatest raw material of the world—the boy and the girl—awaiting the opportunity for safe and sound education, that the utmost power of the human brain and the human soul may be given to the work of human advancement, not merely in the accumulation of wealth but in the upbuilding of character, and to the utmost power of our influence for good upon world affairs.

What shall it profit us if we gain the whole world in power and wealth and yet lose the soul of the real America?

CAROLINA'S INDUSTRIAL DEMANDS FORCING RAPID HYDRO-ELECTRIC EXPANSION.

THE rapidity of the industrial development of North and South Carolina during the past year has been even greater than was anticipated by the power interests operating in those two States. Following on the heels of the \$20,000,000 Saluda River power project near Columbia, S. C., by the Lexington Water Power Company, controlled by the Barstow interests of New York and their Parr Shoals development, and the offering of \$10,000,000 of bonds by the Carolina Power and Light Company for additional construction work, the Southern Power Company now plans a construction program for 1928 involving the expenditure of \$25,000,000 for the development of electric properties in North and South Carolina. This is part of a \$100,000,000 expansion program by the Duke interests for these two States in the next few years.

What better evidence of the industrial growth of the South can be given than in this hydro-electric expansion by the great power interests of the country which through study and experience have learned something of the South's increasing power needs?

THE FRUIT OF THE FAMILY TREE.

JOHN J. HUGHES, Haynes, Ark., merchant, planter and chairman of the joint budget committee of the Arkansas Senate, in a letter to the MANUFACTURERS RECORD writes:

"Your articles on the Sacco-Vanzetti case are splendid and timely. The spirit of the times almost proves the assertion of the celebrated Albert Edward Wiggam, lecturer and author of 'The New Decalogue of Science and the Fruit of the Family Tree'—

"The educated mother gives birth to an average of one-third child per mother, compared to three children birth average from the uneducated and immigrant type mother."

"It must be a case of 'the hand that rocks the cradle rocks the world.'"

"I consider reading your publication a privilege."

CHICAGO TRIBUNE CLAIMS FEDERAL GOVERNMENT SHOULD PAY BONDS ISSUED BY SOUTHERN STATES UNDER CONTROL OF CARPET-BAGGERS.

FROM time to time the MANUFACTURERS RECORD has claimed that during the Reconstruction period, from 1867 to 1876, Southern legislatures were absolutely controlled by the Federal Government, which denied the privilege of voting to most of the white people of the South, yet, through the power of Federal agents, practically forced the negroes to vote. The result was that these corrupt legislatures, under the leadership of "carpetbaggers" and Bolsheviks, as they would now be called, from other sections, issued millions of bonds for which the States never got the benefit. After the white people of the South got control of their legislatures by the recall, in 1876, by President Hayes of the Union troops from the Southern States, most of these bonds were repudiated. There were certainly moral and, possibly, full legal grounds for their repudiation by the individual States, though we believe the Federal Government should assume the responsibility. This does not include the bonds issued by one or two Southern States prior to the Civil War. These States, we think, should in some way settle with the holders of the bonds. Some years ago, Stuyvesant Fish, then president of the Illinois Central Railroad, referring to the bonds issued prior to the Civil War by the State of Mississippi, said he was exceedingly anxious to see Mississippi pay off these old bonds, even though his road would have to be the bearer of the largest portion of the taxation needed for that purpose.

Discussing this whole situation, the Chicago Tribune takes the ground that the Federal Government should pay the repudiated bonds issued by carpet-bag legislatures, and on that subject says:

"We are in receipt of a clipping containing an editorial from the News and Courier of Charleston, S. C., assailing us for our editorial utterances concerning the repudiated debts of certain Southern States. The Southern editorial writer flicks open his history book to the dark days of the carpetbagger and asks:

"Does the Chicago Tribune hold now that South Carolina should pay debts contracted by a gang of robbers protected by the armed forces of the United States?"

"Whether inadvertently or purposefully, this editorial writer has not given his attention to what we have said on certain previous occasions concerning the debts of the Southern States. We reiterate our position by assuring him that not only do we hold South Carolina not responsible for debts which were contracted under duress and often under corruption and not only do we advocate the assumption of these debts by the Federal Government, but we go further and hold that debts for which South Carolina and other Southern States are responsible in law and in conscience should be assumed by the Federal Government if the States cannot be persuaded of their duty to make payment.

"America's action in pressing for a settlement of the obligations incurred by its allies in the world war was responsible for reviving the question of the Southern debts. That question is an old one; the facts are befogged by time and tangled in the legislative procedures of the States during periods of economic, social and political distress. General knowledge is all that we have to go on until some future investigation discloses the truth or an approximation of the truth.

"Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina and South Carolina are the States commonly known to have repudiated obligations. The principal in default is estimated to be in the neighborhood of \$60,000,000. The total obligation, with accrued interest, has been figured variously from \$180,000,000 to \$250,000,000. The in-

ternational aspect of the question rests on the fact that a large portion of the repudiated State bonds were and are held in Great Britain.

"There can be no quarrel between the point of view of the Charleston editor and our own as to the justifiability of separating the debts repudiated by the Southern States. Loans to the Southern States during the Civil War were legally repudiated. Obligations entered into voluntarily by the State Government must be distinguished from those entered into under the duress of carpetbagger rule. Among the Southern States in question South Carolina has perhaps one of the best cases of all in insisting that the State Government is not responsible for the debts contracted following the Civil War.

"Where we disagree, perhaps, with our fellow editorial writer is in believing that the debts justly contracted should be paid by the Southern States. But, even on that point, we shall not be particular.

"The reputation and the credit of the United States demand the payment to foreign creditors of these State obligations whether the States recognize the debts or not. Congress should act to settle the debts contracted under carpetbagger rule and should go further and settle them all if it can constitutionally do so. This country, when its character is in question by foreign nations, cannot afford to seek cover behind the legal distinction between Federal and State obligations.

"It will require an international commission and a long period of research and discussion before the true amount of the debts and the bona fide creditors can be discovered, but the trouble will be worth while.

"For our part we shall be glad to see Illinois taxpayers share in wiping the slate clean—of carpetbagger debts and lawful debts. And we hope we have made our position clear to the Charleston News and Courier."

MANY NATIONAL ORGANIZATIONS MEETING IN THE SOUTH.

WITH greater frequency conventions of national importance are being held in the South each year, illustrating the broader recognition of this section in the life of the nation. The list of national business, financial and fraternal meetings in the South is a long one. Among those business organizations which have held annual meetings in the South this year are: Atlantic Deeper Waterways Convention at Baltimore; American Institute of Architects, Washington; United States League of Building and Loan Associations at Asheville; Chamber of Commerce of the United States at Washington; Fourth International Petroleum Institute, Tulsa; American Chemical Society, Richmond. This month the National Dairy Exposition is held at Memphis; the annual convention of the National Association of Manufacturers at Chattanooga; the American Bankers Association at Houston, and in this issue is the announcement of the Fifth Annual Convention of the American Institute of Steel Construction to be held at Pinehurst, N. C., October 25-29. The Asphalt Paving Conference, a meeting of national importance, is to be held in Atlanta in November.

And so through these conventions in the South of national business organizations there will come a wider appreciation of the South's development, resources and opportunities on the part of all who visit this section, and the South will be enriched by the valuable contacts formed and have a better understanding of the representatives attending the various conventions.

CHARGED once with intoxication, a Washington (D. C.) policeman was fined \$75. For his second offense of the same nature he was fined \$100. On his third conviction he was dismissed from the force, but the sentence was commuted by the District Commissioners to a fine of \$150. Is any comment on law non-enforcement in the national capital necessary, in view of these facts?

With a view to awakening a widespread interest among the leading manufacturers of the country in the coming Convention this month of the National Association of Manufacturers, the following letter very attractively printed has been mailed to 3300 of the foremost members of the National Association of Manufacturers. In the same envelope there has been sent a brief condensation of facts about the South that the manufacturers of the North and West, to whom this letter has gone, may be more thoroughly impressed as to the great material progress of the South. The facts contained in the leaflet will be found immediately after this letter.

Manufacturers Record

EDITOR'S OFFICE

BALTIMORE

October 3, 1927.

To the Members of the National Association of Manufacturers:

MORE than forty years ago Judge William D. Kelly, sometimes referred to as "Pig-Iron Kelly," by reason of his devotion to a tariff on pig iron, and sometimes as "The Father of the House of Representatives," by reason of his long tenure of office there, in a letter to the MANUFACTURERS RECORD, said; "The development of the South means the enrichment of the nation."

Judge Kelly's graphic statement is now coming to pass. The whole nation is being enriched by the development of the South, and the business people of all sections—bankers, manufacturers and others—are coming to realize that with its marvelous natural resources the South is destined to be one of the greatest industrial centers of the world.

Money is being poured into the South as never before by the greatest capitalists in America. Southern railroads are making much larger earnings than those of other sections. Hydro-electric developments on an enormous scale are going forward all over the South and in the Southwest electric power is being generated by powdered coal, oil and lignite at a cost which is bringing about a great industrial development in Louisiana, Texas and other Southwestern States.

Every manufacturer in America is vitally interested in studying this situation, whether he studies the South from the viewpoint of the ever-increasing demand for the machinery and other manufactured products of the North and West or whether he studies it from the viewpoint of possible location of his plant or investment of money in the South. The great natural asset of the nation—the South—is now being developed on a scale which will match, if not surpass, the most active development ever heretofore seen in the United States, and that means in the world.

The National Association of Manufacturers has wisely decided to hold its annual meeting in Chattanooga. This will give to every member of that organization a chance to study the South, and I am taking the liberty of stressing the importance of the attendance of members of your organization at that meeting. The foremost manufacturers of the United States should be there:—

First: Because it will give them an opportunity to meet the leaders of Southern business and to see for themselves what the South has and what it is doing;

Second: Because in this mingling of the business men of all sections there will come about great friendship and business acquaintanceship which will be of value to the country viewed from every standpoint—industrial, commercial, social and political;

Third: Because Chattanooga is a peculiarly favorable place for this Convention in that it was the scene of some of the decisive battles of the Civil War, and soon after that unfortunate struggle became the home of a number of the leaders in the Union Army, who, while engaged in these great battles, came to know the marvelous beauty of the scenery, the charm of its climate and the advantages for future upbuilding. It is, therefore, a place which peculiarly combines the blood of the North and the West and the

South, not the blood shed on the battlefields, but the blood which was united for building up a great industrial and business community.

From Lookout Mountain and from Signal Mountain, two points where the battles raged, you will have the opportunity of gazing upon some of the most superb mountain and valley views in this country and by some regarded as unsurpassed in the world.

In attendance upon the meeting of the National Association of Manufacturers you will have the opportunity of visiting other industrial and financial cities of the South. You will come to know the South better than you have ever known it before unless you have been in the most intimate touch with its people and its business activities. You will find in this situation opportunities for a broad vision and a fuller understanding of our entire country and through the friendships made there with the people of all sections you will come to realize that if such an acquaintanceship could have been brought about prior to the Civil War this friendship probably would have found a way to prevent that struggle which meant such infinite losses to the nation. It will interest you to know that many years before the Civil War the people of Charleston long sought to build a railroad from that port to Cincinnati, not only for the purpose of turning the trade from the West to a Southern port, but because they believed that such a railroad, bringing the two sections into closer business activities, would prevent the possibility of a Civil War which many were fearing.

As the MANUFACTURERS RECORD strongly urged that the 1927 meeting of the National Association of Manufacturers should be held in the South, I would now emphasize as strongly as I possibly can the desirability of the largest attendance that the Association has ever had of manufacturers from all parts of the country and would express the hope that your organization will be represented there by one or more of its leading officials, assured that you will find this a profitable investment from the point of view of a larger knowledge of the South, of a broader acquaintanceship with Southern men and Southern resources which will be made there, of the glories of the mountain scenery around Chattanooga and of the advantages which you will find the South possesses for a business development of which as yet we have seen but the smallest beginning. Mr. Hoover recently said in substance that the coming 25 years will show the greatest industrial development in the South to be found anywhere in this country, and a visit to that section and a study of its resources and progress will convince you that the "half has not been told."

If you feel disposed to write me as to your probable attendance or your views as to the South we will appreciate your cooperation in helping to make this meeting of the Association the greatest in its history.

Sincerely yours,



EDITOR.

The South of Today in Many Things Exceeds the United States of 1900.

NEVER before in the history of the South has its material expansion been of such magnitude, so rapid and of such diversified character as it is today. The value of the manufacturing, mining and agricultural output of the South now exceeds what the entire country was producing in 1900. In 1900 it must be remembered the United States had nearly double the population of the South today, but the wealth of the country at that time was only 10 per cent larger than the wealth of the South today.

Between 1923 and 1925, the last census figures, more than one-third of the increase in the total value of manufactures

for the entire United States was made by Southern industries. The South is now producing more than \$10,500,000,000 of manufactured goods annually, or about seven times its output of 1900 and more than treble its production of 1910.

More than 23 per cent of the country's developed hydro-electric power is in the South and this section is making greater growth in installed capacity than is shown in the rest of the country—last year nearly one-half of the total increase in water-power development was in the Southern States.

From the South's vast storehouse of minerals, surpassing any equal area on earth in magnitude and proximity, it is turning out about one-third of the mineral values of the country.

In 1926 Southern construction contracts approximated \$900,-

900,000, about one-half being for building projects. Highway construction in the South last year involved an expenditure of approximately \$400,000,000. Likewise waterways, harbors and railways have been improved and millions spent for development work.

Public improvements to keep pace with fast growing communities have been on a large scale. For the first six months of this year public improvement bonds marketed in the South, as reported in the weekly issues of the MANUFACTURERS RECORD, amounted to \$261,456,000, as compared with \$201,372,000 in the corresponding period of 1926.

That the South and Southern industry are prosperous is strikingly shown in the fact that while the South paid nearly \$52,000,000 more into the Federal Treasury in total Federal taxes during the last fiscal year compared with the preceding one, Federal tax collections in the rest of the country outside of the South during this period were approximately \$22,000,000 less.

High prices prevailing in agriculture assure one of the most prosperous seasons the South has had in several years. Millions of dollars more will be received by Southern farmers who will soon begin to pour a golden flow into the marts of trade for necessities and luxuries, all of which will call for increased manufactured output to supply the demand.

The South Today Compared With the United States in 1900.

	The United States, 1900	The Southern States, 1926	South's increase, 1900-1926, per cent
Population	75,994,000	39,711,000	44.7
Wealth	\$88,517,307,000	\$80,000,000,000	346.4
Manufactured products	\$11,406,926,000	\$10,372,000,000	563.1
Lumber manufacturing ...	\$760,992,000	\$666,340,000	164.8
Cotton manufacturing ...	\$339,200,000	\$931,567,000	839.8
Furniture manufacturing ..	\$130,634,000	\$142,861,000	816.2
Mineral products	\$1,108,927,000	\$1,785,059,000	1274.6
Coal production, tons	269,684,000	263,589,000	383.5
Petroleum production, bbls.	63,620,000	437,536,000	2458.4
Pig-iron, tons..	13,789,000	4,488,000	69.8
Coke made, tons	20,533,000	8,603,000	48.4
Farm products. \$4,717,000,000		\$5,232,000,000	234.5
Exports, value. \$1,394,483,000		\$1,672,490,000	245.1
Imports, value. \$849,941,000		\$528,409,000	914.3
Banking resources	\$10,785,800,000	\$10,200,422,000	540.0
Individual deposits	\$7,288,900,000	\$7,344,008,000	962.1
Railroad mileage	193,346	91,346	47.8
Highway expenditures	\$50,000,000	\$395,975,000	3033.7
Public-school expenditures..	\$214,964,000	\$364,864,000	941.3

MAKING EASIER CREDIT FOR SOUTHERN MANUFACTURERS.

B. BERNSTAUF of the Continental and Commercial Company of Chicago, referring to the Blue Book of Southern Progress, says:

"It is extremely enlightening and should help to create an easier credit situation for manufacturers requiring funds for expansion. * * * I quite agree with you that 'into it is compacted more information about the South than can be found in all other publications combined.'"

Have you read the Blue Book? Price 50 cents.

A BLUNDER BY THE BALTIMORE CLEARING HOUSE.

THE Clearing House of Baltimore has issued instructions to all member banks to charge \$1 a month to all checking account depositors who carry an average balance under \$200. No individual bank under the ruling of the Clearing House can refuse this command without losing its right to clear its checks through that organization, nor can any bank which clears through the members of the Clearing House be permitted to carry a deposit account averaging less than \$200 without this dollar a month charge.

This action of the Clearing House in our opinion is a serious mistake. In the first place, it serves to intensify a growing spirit of criticism or hostility to financial interests generally, and that spirit is more acute than bankers generally understand. It will almost certainly result in much criticism and probably sooner or later in some adverse legislation. It is on a par with the mistakes of railroads and public service corporations in former years in ignoring public sentiment, seeing only their side of the case and forgetting the public's side.

In the next place, it should be the policy of all bankers to encourage the use of checks rather than of cash in business transactions, and in this way bring into the banks the money that in former years has been so largely held in old stockings or in other places at home. Bankers have for years been advising people to keep a checking account, and thousands have been induced to do so for the convenience and safety of handling money. The development of this spirit is of importance to bankers and to the country at large. Anything which discourages it will ultimately prove disadvantageous to bankers and to the country.

It is true that measured by the standard of cost accounting which the bankers use, a checking account averaging less than \$200 does not pay an immediate return upon the cost of handling that account, but there are phases of this business which should not have been overlooked in a discussion of the subject. Every check on a bank which is sent out by a depositor to a certain extent gives enlarged publicity to the business of that bank. Every depositor, however small may be his account, adds a little to the favor of the public in regard to that bank and to banking generally. Everything which discourages this spirit reacts upon the bank and encourages the putting of money into wild-cat enterprises. It is not altogether improbable or impossible that some day the relations which banks hold to the public will result in legislation requiring them to be controlled by public service commissions, State or national. It is not at all improbable that the public will some day demand a more complete control of the whole banking business of the country than now exists. The banker who does not realize this is living in a fool's paradise or he is following the custom of the ostrich, sticking his head in the sand and declaring there is no enemy because he cannot see one.

Viewed from the relation of banking interests generally to the public, from the standpoint of encouraging depositors, however small, even though the handling of the account may seemingly bring a small loss to the bank, and from other standpoints, we regard the action of the Baltimore Clearing House as extremely unwise and certain to create a spirit of pronounced hostility. We are not at all unaware of the banker's side of the situation as many bankers view it, nor were we at all unaware 25 or 30 years ago of the views of railroad officials in their attitude toward the public, but we told them then they were sowing the wind and would reap a whirlwind unless their methods were changed and they reaped the whirlwind. The same thing holds good as to banking and also as to public utility interests, some of which

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Needless to say, the Baltimore Clearing House is, simply following in the footsteps of some other banking organizations throughout the country many of whom are adopting the "service charge," as this charge of a dollar a month on accounts averaging less than \$200 is called. Some North Carolina banks are charging \$1 on average balances of less than \$100, and in some instances the charge is reported as 25 cents with a minimum average of deposit of \$25. The Tarheel Banker gives a long list of North Carolina banks which have adopted this service charge.

Inevitably this action will result in causing many people who have been running small checking accounts to cease doing so, keeping their money in their pockets or at home, and paying in cash, rather than through checks. The bankers adopting this plan are making a serious mistake.

The view of the Clearing House is expressed in the following letter from Waldo F. Newcomer, president, to which we are glad to give space, although it does not change our own convictions as to the unwisdom of this action. Mr. Newcomer writes:

"In connection with the recent decision of the Clearing House to have all members make a service charge of \$1 per month on all accounts with an average monthly balance of less than \$200, this has in general been accepted in very good part by the banks' depositors, but there has been some agitation in the letter columns of the newspapers which shows such a complete misapprehension regarding many points that I am glad to have an opportunity to make the following statement on some of these misapprehensions.

"First, there is an impression that this refers to daily balances and an account, no matter how good, whose balance fell below \$200 temporarily, would be subject to the charge. This is not correct, but it applies to the average balance for the month, figured for the calendar month or for such a monthly period as the individual bank uses in its calculations, some dating from the 10th or 15th of a month.

"One critic says that whilst it is all right to follow New York in some things, Baltimore should not follow it in this because the conditions are so different. He may be surprised to know that New York has no service charge, but the New York banks simply decline to take business that does not pay. The service charge was instituted in other cities to avoid driving these accounts bodily out of a bank. Another argued that though a single one of these accounts may not pay, the bank should remember that in the aggregate these small accounts amount to a great deal and form a paying part. This is the theory upon which the 5-cent and 10-cent stores were built, and other large industries, which have made fortunes out of an aggregation of small profits, but it is a different thing to buy an article which costs, including selling expenses, 4 cents and sell it at 5 cents, where a sufficiently large business will result in profits, and to attempt to do a service for nothing which costs something and the cost of which increases pro rata with the number of such services rendered.

"It is true that a few years ago many banks were soliciting small accounts. Usually these solicitations were for savings accounts, which I will show directly are a very different proposition, and where they were checking accounts it was in the belief that many of these would grow into valuable accounts. Experience has shown, however, that instead of receiving a moderate number of these, and a reasonable proportion of them becoming profitable, the banks have been loaded with thousands of small accounts, many of which draw as many checks and involving as much expense as accounts carrying a thousand dollar balance, and it has become a serious load.

"Attention has also been called to the fact that banks are prosperous and should not attempt to grasp every dollar. The purpose of this rule is not to increase the revenue of the banks materially, but to get a burdensome part of the business on a self-sustaining basis and to encourage people to consider their transactions on a business basis and make them at least self-sustaining. There is nothing new in this rule. The old National Exchange Bank, of which I was president, introduced a service charge quite a number of years ago. We did not apply the rule rigidly, but made exceptions in favor of customers who had other profitable

business with the bank which might be said to offset a small checking account. As a result of this, you will notice, that the charge fell on those presumably of moderate means who could not furnish any offsetting business. The result of it was that many people built up their accounts to a figure that did make those self-supporting, many others cheerfully paid the charge and a very few withdrew their accounts. This practice, however, of making exceptions on any ground was open to some debate as to its fairness, and some of the banks which desired to install a charge were a little afraid to do it unless all would act together, which resulted in the passage of the rule.

"The writer has been quoted as saying that if this resulted in driving accounts out of the banks we could get along without them, and this has been construed as equivalent to the saying of a certain famous man, 'The public be damned.' As a matter of fact the remark was made in direct answer to the question as to whether this act might not result in driving accounts out of the banks, and I said that from the banks' standpoint no loss would result, as they were not profitable, but I went on to say that no injustice would be done because in very many cases it required a comparatively small addition to the balance to bring it within the rule, and that the individual who was unable to do this would not be seriously inconvenienced if he gave up his checking account and opened a savings account. As a matter of fact, very few of the small wage earners have checking accounts; they draw their money in cash, they pay in cash for their purchases and deposit their savings in a savings account where they secure interest.

"Now a word as to the difference from a bank's standpoint between a savings account and a checking account. On a checking account 10 per cent of the fund must be kept in the Federal Reserve bank free of interest, and in order to meet active drawing of checks experience has shown that at least 5 per cent more must be kept in cash, and as a result only about 85 per cent is available for productive earning. Furthermore, the necessary bookkeeping, the work of collecting the checks deposited, including postage, stationery, etc., and the cost of keeping up the clearing house operations for the collection of local checks drawn on one bank and deposited in another amounts to a considerable expense, whereas on a savings account the reserve to be kept in the Federal Reserve bank is only 3 per cent, and as there are no checks drawn against it there is no expensive labor within the bank, and outside of the possibility of a run on a bank the amount required for making current withdrawals is very small and probably 95 per cent is available for profitable use.

"Almost any banker is willing to discuss this matter and explain it to a customer who feels that in his or her case there is some hardship, but most of the difficulty arises from the fact that the average person seems to think a bank has no work in connection with his account except to accept his money and hand it back and does not appreciate either the value of the services rendered by the bank in giving him the advantage of paying his bills by check, nor the expense at which this service is rendered.

"The entire Clearing House organization is maintained at considerable expense mainly for the purpose of effecting a prompt and economical collection of checks drawn on one city bank and deposited in another, and thus to give depositors the greatest possible facility for the payment of their bills by checks. Were it not for this service it would require a far larger balance than \$200 to offset the cost."

THE NEW GOVERNOR OF THE FEDERAL RESERVE BOARD.

THE selection of Roy A. Young as successor to Mr. Crissinger as Governor of the Federal Reserve Board has been received with much approval throughout the country so far as we can learn. Beginning his banking career as a messenger in the First National Bank of Marquette, Mich., he has steadily advanced until he has become recognized as one of the leading banking men of the great West. Perhaps coming from the West, and therefore better acquainted with the conditions of the country at large than the average Eastern banker, who knows comparatively little outside of his own bailiwick, Mr. Young will be able to take the same broad view of banking questions held by Mr. Crissinger. For the good of the country it is to be hoped so.

Largest Exports Since 1921—Imports Decline.

Despite a decline in prices, the total value of American exports for the first six months of the year was the largest since 1921, as shown in a bulletin on "Our World Trade" issued by the Foreign Commerce Department of the Chamber of Commerce of the United States. Exports for the first half of the year amounted to more than two and a third billion dollars, being 7.2 per cent larger than a year ago. Europe still holds first place as the chief market for American goods. Imports declined during the first half of the year.

"Exports of American finished manufactures," says the Chamber, "exceeded one billion dollars for the first time since the first half of 1921, a period of inflated prices. Notwithstanding the lower price level, gains in value among our 50 leading exports were registered by 22 out of 33 manufactured products, 4 out of 7 manufactured foodstuffs, 4 out of 5 crude foodstuffs and 3 out of 5 raw materials.

"Substantial increases occurred in exports of grains, fruits and nuts, textiles, chemicals, machinery and vehicles, timber, sawmill products and non-ferrous metals. Exports of meat, lard and petroleum products fell off.

"The foreign demand for American cotton was the heaviest in years. Fourteen-cent cotton—six cents off last year's price—found foreign markets to the extent of nearly five and a quarter million bales—a 68 per cent increase over last year's first-half total. Germany, with six months of steady industrial prosperity, was the largest buyer of our cotton, more than doubling her purchases of last year. Russia, China, Hongkong and Japan also greatly increased their purchases of cotton. Despite the drop in the price, the huge volume shipped abroad brought the total value up to \$377,000,000, or \$52,000,000 more than last year.

"Foreign demand for American automobiles brought our exports of trucks and passenger cars to new records. We shipped abroad 54,725 motortrucks and buses, not including electric, 56 per cent more than a year ago, and 160,000 passenger cars, 26 per cent more than in the first six months of 1926. The value of exports of automobiles, parts and accessories, except tires, was \$212,078,000, nearly 23 per cent higher than last year, setting a new high-water mark for a six-month period.

"During this period we exported 45,833,000 bushels of wheat, as compared with 27,857,000 a year ago, an increase of 65 per cent in volume. The average export price was \$1.50 a bushel, 3 cents lower than last year, the total value amounting to \$68,581,000, as against \$42,576,000 in 1926. With a decrease of 71 cents a barrel exports of wheat flour made a 23 per cent gain in value from \$30,935,000 to \$38,189,000. The quantity increased from 4,198,000 to 5,733,000 barrels, or 37 per cent. Exports of coal-tar products almost doubled in value, increasing from \$5,390,000 to \$10,629,000, a gain of 97 per cent.

"Other substantial increases in value among our leading exports were made in the following commodities: Iron and steel plates, sheets, skelp and strips, 17 per cent; brass and bronze, 42 per cent; oil-well machinery, 42 per cent; power-driven metal-working machinery, 25 per cent; gas and fuel oil, 21 per cent; sulphur, 42 per cent; automobile tires, 30 per cent; rye, 189 per cent; fresh apples, 118 per cent; oranges, 35 per cent; canned fruits, 64 per cent, and fish, 35 per cent.

"Striking increases in quantity included iron ore, 51 per cent; iron and steel scrap, 68 per cent; lead pigs, bars, etc., 54 per cent; safety razor blades, 67 per cent; oil-well machinery, 82 per cent; accounting and calculating machines, 44 per cent; air compressors, 48 per cent; electric lamps, 41 per cent; automobile tires, 87 per cent; cameras, 74 per cent; doors, 62 per cent; petroleum asphalt, 170 per cent; crude

coal tar and pitch, 1264 per cent; benzol, 210 per cent; rye, 151 per cent; apples, 145 per cent; rice, 1045 per cent; rice flour, meal and broken rice, 222 per cent; barley, 75 per cent; grapefruit, 85 per cent, and canned fruits, 83 per cent.

"The severest declines in value were sustained by foodstuffs, lard declining 20 per cent; hams and shoulders, 41 per cent; bacon, 43 per cent, and corn, 41 per cent. Agricultural machinery and implements were 12 per cent lower, an improvement over the 25 per cent decrease in the first quarter.

"In quantity exports of corn declined 37 per cent; hams and shoulders, 39 per cent; bacon, 35 per cent; freight cars, 52 per cent, and harvesters and binders, 52 per cent."

Mr. Meminger of Florida and North Carolina Writes From Paris in Opposition to Cancelling Debt of France.

Royal Bonceau Hotel.

Paris, September 15.

Editor Manufacturers Record:

I enclose a clipping from the Paris edition of the New York Herald under date of August 15 in regard to the French debt situation, from which you will observe the remark is made that London regards with some surprise the agitation for partial cancellation by the United States of French obligations. In view of the very prosperous conditions apparently prevailing in France, there is a growing feeling in London that the English Government were perhaps too hasty in regard to the British settlement of their debt with America, and surprise is expressed at the renewed agitation in the United States for at least a partial cancellation of the French obligations.

Enclosed also is a clipping in regard to the results of the recent tariff treaty between France and Germany which comes into effect practically immediately and which to all intents and purposes will absolutely suspend all imports of American products into France unless some modification can be effected, which I doubt extremely.

I have always read with intense interest your extremely able articles setting forth your views of favoring cancellation of the French war obligations to the United States, and while I have always in our many years of friendship agreed with practically every major stand that you have taken and the views you have expressed, on the other hand I have always further felt that your viewpoint in this matter was actuated by a kind heart rather than by appreciation of the real status of the situation.

I have spent, as you may be possibly aware, a very considerable part of my time abroad since 1919 studying carefully the general financial economic situation in the most important countries in Europe, and in France especially, and there is not a shadow of doubt in my mind that for the United States to release France from her obligations would be absolutely unwise from every viewpoint, as they are thoroughly able to meet these obligations should they apply themselves properly to them.

With kind personal regards and best wishes,

C. G. MEMINGER.

Folder About Odessa, Texas.

Abner Davis of the Odessa Building and Finance Company, Odessa, Texas, has sent to the MANUFACTURERS RECORD a copy of a large illustrated folder that he prepared, with the title "Odessa the Queen of the Plains." It contains a large number of pictures of scenes in Odessa and the surrounding country besides numerous pertinent facts concerning the city and its progress. Odessa is the county-seat of Ector county. It is on the main line of the Texas and Pacific Railway and at an altitude of about 2800 feet. The publication is expressive of advancement and enterprise.

Revelations of Chemistry at Eleventh Exposition of Chemical Industries.

WILL SYNTHETIC LUMBER SUPPLANT NATURE'S PRODUCT? OTHER ILLUSTRATIONS OF CHEMISTRY'S CREATIVE POWER.

By RICHARD WOODS EDMONDS.

New York, October 3.

For the visitor who cared enough to read the signs, many an alteration in our swiftly-changing mode of living was forecast by the exhibits of the Eleventh Exposition of Chemical Industries, held during the week of September 26-October 1 at the Grand Central Palace in New York.

How many synthetic products have become indispensable to our daily lives is illustrated by a survey of the exhibits at the exposition. How many more are likely within the next few years to supplant age-old materials on which we depend today we can conjecture from piecing together the stories told by related exhibits. For example, lumber sawn from trees has been used since the memory of man runneth not to the contrary, and waking or sleeping we depend upon it in a multitude of uses every day of our lives. Synthetic lumber, however, or structural fiber board, is no longer a novelty, and now, if the work of Dr. O. R. Sweeney, of Iowa State College, means anything it means that the way has been opened to supplant natural lumber by a synthetic product to a much greater degree than ever before. Board varying all the way from the soft, porous material used for acoustic purposes to a material so hard as to be difficult to cut or to drive nails into has been made from corn stalks; and two plants designed to use Dr. Sweeney's process are under construction in the central states where they will be able to draw upon the immense crops of stalks produced in the corn belt.

Dr. Sweeney points out that we annually use 90,000,000,000 board feet of lumber; that, supposing further progress should some day enable us to make lumber for all our requirements from corn stalks, this immense yearly consumption would require only 75 per cent of our annual crop of 200,000,000 tons. Dr. Sweeney does not yet claim to be ready to supply this demand entirely from corn stalks. These figures are quoted merely to show the magnitude of the field into which his researches have led; to indicate the possibilities opening before a corn-stalk lumber industry. But this is not all. Like many another man before him, Dr. Sweeney makes paper from corn stalks, by what he believes to be a commercially feasible process. An additional 10 per cent of our 200,000,000-ton corn stalk crop will be sufficient for all our requirements for paper of the grades feasible from that source. Should this ever come to pass—and some chemists regard it as assured—our forests will fall before the ax only as fast as the land is needed for agriculture, while a new source of rich revenue will be added to the farmer's resources.

Many an experimenter has failed in the same effort, chiefly because of the low yield per ton of the stalks, and the cost of their collection. But Dr. Sweeney has not only worked out improvements in the manufacture of paper and fiber-board; he has gone far in the extraction of chemicals from the stalks before the fibers are used, and believes that the added value of these by-products will enable the corn stalks to pay a good profit on their collection.

Of these chemicals, probably the chief is furfural. This product, now made wholly from oat hulls, enters among other things, into the manufacture of plastics.

Here again we come to a great field for future expansion,

through which trails have been blazed, and sign-posts set up, by pioneers among the exhibitors at the exposition. Bakelite, durite and durez, karolith and erinoid are well-known examples of the two sorts of plastics on exhibition—synthetic resins and caseins. Synthetic resins are made from combinations of such chemicals as phenol and formaldehyde, glycerine and phthalic acid, phenol and furfural; phenol and glycerine. The casein plastics are made from skim milk. The former enter into a wide range of industrial uses where hardness and strength are required; the latter, because of the beautiful colors it takes on, finds an outlet in a great variety of ornamental objects. Furfural is an essential ingredient of certain of the synthetic resins as now made, and some chemists believe that eventually resin plastics will be made entirely from this one material, thus greatly reducing the raw-material cost. The resin plastic is now used in industry in place of iron, steel, brass, and other metals for electric motor housings, electric distributor parts on automobiles, silent gears, and a hundred or more other places where great strength and hardness are required; as a substitute for wood where the cost of working the latter is great; as doorknobs and door-lock plates, electric light switch-plates, and many other uses. Its great drawback is the cost of its raw materials, and if it can ever be made from furfural alone, or if the cost of the present ingredients can be greatly reduced, it will find an immense outlet in the manufacture of furniture and interior trim. Ten or fifteen years hence we may be accustomed to tables and chairs made of some form of resin plastic. While last week the crowds viewed these bakelite and durez objects as curiosities, in a few years we may rejoice in bureaus and desks whose drawers never swell and jam in damp weather; may have these and other articles, now made from wood, turned out in designs entirely out of the question for the natural forest product.

Akin to the plastics industry through a common ancestry of some of the raw materials is the manufacture of alcohols and esters. The wood distillation industry, making crude methanol, acetate of lime, and the intricate chain of products of which these become ingredients, or into which they are converted or subdivided, provides solvents among other important products, of lacquers, either pigmented or unpigmented. It is said that, by the use of quick-drying, unpigmented lacquer, the floor space required for finishing departments in furniture factories has been reduced 70 per cent. Their use in the automobile industry is well known, and colorful lacquered furniture is becoming popular. The Cleveland-Cliffs Iron Co. showed chemicals made by destructive distillation of the birch, beech and maple on its iron-ore lands, and an elaborate chart illustrating the relations of the various products of such distillation. The Ford Motor Company exhibited a model of its Iron Mountain plant for extracting similar chemicals from sawdust and other wood waste.

A further large group in which research has brought forth either important new products or improvements in old processes, is the metal alloys.

Hybnickel and hyblum, nickel and aluminum alloys, respectively, are named for their inventor, Victor Hybinette. Resistance to heat and corrosion and bright polish, proper-

ties claimed for hyblum, an alloy of aluminum and copper, have led, the inventor explains, to its adoption for radiator frames of Chevrolet cars. A chromium-plating process, for taking advantage of the great hardness, the brilliant, lasting polish and durability of chromium, was exhibited by the General Chromium Corporation, while in the iron group, the Tennessee Copper and Chemical Corporation showed samples of an iron sinter made from an ore containing copper and iron sulphide. After removal of the copper the sulphur, driven off by roasting, is caught and used in making sulphuric acid. The iron is left in the form of an oxide said to be free from sulphur, and to run 64 per cent metallic iron, a high-grade iron ore.

Rust proofing by cadmium plating was shown by the Udy-lite Process Company, while the Vanadium Corporation of America was present with an exhibit of alloys, metals and chemicals in considerable variety.

Products that may be broadly classified under the heading of glass were represented by four manufacturers. The Corning Glass Works, makers of the well-known domestic ware Pyrex, were exhibiting a line of laboratory apparatus designed to resist shocks, concentrated acids and high temperatures. It is said that when the war shut off our supply of German laboratory glass the Corning works jumped into the breach and so greatly improved their product that German laboratory glass can no longer compete with theirs.

Vita glass, the other true glass of the group, is made by an ultra-violet transmission formula to admit the life-giving rays shut out of sunlight by ordinary window glass.

The other two of the group are the Thermal Syndicate, Ltd., makers of vitreous fused silica and fused quartz, and Sidio Company of America, Inc., makers of fused silica vessels and pipes and other large and small factory equipment for resistance to acids and sudden temperature changes.

These are a few of the striking exhibits that caught your correspondent's eye; the list could be multiplied manyfold if space would permit. Before closing, mention should be made of three Southern railroads that were on hand with exhibits of the resources of the sections served by their lines: the Southern Railway, the Atlanta, Birmingham and Coast, and the Southern Pacific.

Among two or three hundred samples shown in the Southern Railway's booth, there were three which were believed to be of more than ordinary importance. First, kyanite, a refractory, is a high aluminum silicate occurring as a hard, crystalline rock. It is now being mined, crushed and manufactured in Virginia by the McLanahan-Watkins Company, which makes saggers, glass house refractories, mullite bodies and super-refractories. Other deposits occurring in Western North Carolina, one near Old Fort and one near Black Mountain, literally within a stone's throw of the railroad track, are being investigated as to quality and quantity. Second, in the Asheville district in North Carolina occurs a deposit of garnet in a mica schist, the garnet being considered suitable for an abrasive and the mica of a sort to be used in the ground state, as in roofing. Third, baukite, a super-refractory which, it is said, can be applied in the form of a paste to the linings of furnaces, is being produced at Apison, Tenn.

The booth of the A. B. & C. featured, first, a process for making a wide variety of brick from slag and one or two clays, showing, it is believed, the possibility of making in the South many types of brick and tile not now made from individual clays. Second, samples of high silica sands purified by chemical process for use in making glass products. Third, production of synthetic mullite, a refractory material, from high alumina clay. Fourth, the production of light weight aggregate for concrete from fullers earth; and fifth, a wide variety of raw materials, with a map showing the location and association of 33 raw materials and 111 finished products

to be made therefrom, and descriptions, in pamphlet form for distribution, of the materials shown on the map and in the booth.

The Southern Pacific booth, showing a beautiful collection of cacti set in sand in a most lifelike fashion, attracted lively interest, but sent a good many people away with the impression that the territory served by that road must be a forbidding and fearful desert. Nevertheless, it distributed large numbers of pamphlets on passenger service and on the mineral resources of the section.

Steel Construction Institute Meets at Pinehurst.

The fifth annual convention of the American Institute of Steel Construction, Inc., will be held October 25-29, 1927, at Pinehurst, N. C. Among the principal speakers are: Karl E. Vogel, vice-president, Omaha Steel Works, Omaha, Neb., on "The Proper Merchandising of Structural Steel"; C. R. Young, Professor of Structural Engineering, University of Toronto, Toronto, Canada, on "Tensile Working Strength of Rivets"; Alfred E. Lindau, president, American System of Reinforcing, Chicago, on "Reinforced Concrete Construction"; Dr. Ralph Modjeski, consulting bridge engineer, New York city, on "Steel in Bridges." A number of other prominent men are to address the convention. Open discussions on problems of the steel industry are to be conducted. William H. Page, Bureau of Public Relations, writes:

"Thirty-three States of the Union and the provinces of Ontario and Quebec will be represented by structural steel fabricators attending the convention. Representatives of the large rolling mills and a number of leading architects and engineers will be present. A total attendance of over 300 is expected."

Contracts on \$500,000 State Building.

Contracts have been awarded by the State Board of Welfare, Robert B. Case, secretary, Baltimore, for the erection of a \$500,000 administration and cell building for the House of Correction at Jessups, Md. The Davis Construction Company, Baltimore, was awarded general construction contract at \$229,750, and the Van Dorn Iron Works, Cleveland, Ohio, contract at \$209,655, for furnishing and installing 392 cells in four tiers. Plumbing contract was awarded to Harry L. Black & Son, Baltimore, at \$43,274, while contracts for heating and lighting have been reserved.

The building will be 270 by 55 feet, 55 feet high to cornice, of brick and steel construction, with granite trim, slate roof, cement, marbleoid and terrazzo floors. Theo. Wells Pietsch is the architect and George E. Painter, mechanical engineer, both of Baltimore.

Plans for \$250,000 Washington Residence.

Washington, D. C.—Plans and specifications are being prepared by Horace W. Peaslee of this city for a \$250,000 residence to be erected here for Charles H. Tompkins, the structure to be three stories and to contain 278,000 cubic feet. It will be fireproof with a brick and stone front, concrete and brick foundation, wood floors on concrete and slate roof on wood and steel. The C. H. Tompkins Company, Washington, will handle construction, the owner taking sub-bids.

For \$325,000 Theater in Atlanta.

Charlotte, N. C.—According to an announcement by Nat L. Royster, representatives of Lockwood & Poundstone, architects, and the C. K. Howell Architectural and Construction Company, both of Atlanta, have been invited to Charlotte to confer with him relative to a \$325,000 theater in this city, which Mr. Royster plans to erect. The building will have a seating capacity of 2500 and sites are being considered on North Tryon and South Tryon streets.

Interesting Phases of Handling Minerals As Exhibited at the Exposition of Chemical Industries.

By COURTENAY DE KALB.

One of the significant indications of the future industrial South was revealed at the Chemical Industries Exposition in New York by the splendid collection of minerals shown from the area tributary to the lines of the Southern Railway. Of the staple metals, iron, copper, lead, zinc, ores of aluminum and manganese were represented from many localities. Outside of these was a range of useful minerals so wide as to leave no doubt what the development must be in years to come. Today the mineral industry is in its infancy in the Southern States, and yet last year the value of its mineral output was almost equal to the staple Southern crop, King Cotton. In a brief period, at this rapid rate of growth, the mineral industry will be the greatest of all. More than twenty of the large exhibits at the Chemical Industries Exposition related directly to the treatment of mineral products, which is exclusive of the many booths devoted to a display of various preparations of lime.

If a classification were to be made, it might be said that three outstanding problems which arise in the treatment of minerals are those of crushing, screening and the related questions of de-watering and filtration. Old as is the chemical industry, the greater progress in those three divisions has arisen through the efforts at solving the difficulties encountered in the beneficiation of metalliferous ores. A great many of the most notable exhibits were derived from experience in Western mines, the majority being evolutions from methods applied in the treatment of gold and copper.

Among the crushers were the Hardinge Company's conical ball mill, and a type of rod mill, both designed primarily for use at the Western mines, but, like much mining equipment, speedily adapted to an enormous range of uses in general industry. The Williams Patent Crusher and Pulverizer Company of St. Louis have led out from beginnings that had their origin in the disintegration of ores with the hammer mill to the crushing and disintegration of coal, lime, oyster shells, spices, oil-cake, gypsum, clays, cement materials and a dozen other special applications. The Abbé Engineering Company of New York has for decades been one of the leaders in ball-mill grinding, and had a fine exhibit. A newcomer, with an adaptation of the ancient and honorable Chilean mill, which dated far back of any metallurgical operations in Chile, was the Bethlehem pulverizer, made by the Bethlehem Steel Company. The special features of this revival are the skilled workmanship in the rolls, insuring length of service, and, along with this, the pneumatic exhaust of the finished product, again classified in an overhead cone, with a return of the coarser material to the mill. The rolls are fixed, and the base or mulling plate revolves.

An ancient problem has been the screening of ores, and here again the chief contribution has come from Western mining plants. The original great forward stride in this prehistoric problem of sifting was taken in Utah. This introduced a principle which, as done by hand, also probably dated back to Tubal Cain. It was that of vibration. With the introduction of electric power, with its high speeds, it became possible actually to impart a rapid vibratory motion mechanically to a screen. That was soon modified by active inventive minds, so that today many types exist. Five of these were on exhibition, the pioneer of the high-velocity class, called "the Hummer," made by the W. S. Tyler Company of Cleveland; the Niagara counterflow screen, introduced recently by the Niagara Concrete Mixer Company

of Buffalo, N. Y., having a screen box mounted on a shaft with a very slight eccentricity revolving in a direction counter to the slope of the screen; the James screen, made by the Norwood Engineering Company of Boston, which has kept pace with the exacting needs of the times; the Mitchell electric vibrating screen, manufactured by the C. W. Hunt Company, Inc., of New York, with a speed of 60 vibrations per second in both a vertical and a horizontal direction, and the "Screen Supreme," made by the Traylor Vibrator Company, Denver and New York, also with excellent features of its own. The introduction of the vibratory principle into screening has been revolutionary in its results. The old persistent trouble from "blinding" of screens now is a thing of the past. Immense capacities are secured with small screen-areas. There is no longer any excuse for worrying with the old systems of bumping screens, that do a great deal of noisy bumping, but make very little separation.

Steady improvement is noted in methods of de-watering, in which general class filtration must be included. Here again the notable and distinctive systems originated among the mines, chiefly at Western plants, where the problems arose mainly in connection with the cyanidation of gold ores, and the concentration of copper and lead ores. One of the earliest of the modern types was the Oliver filter, still made near its starting point at the North Star Mine on the "Mother Lode" of California; that is, in San Francisco, by the Oliver Continuous Filter Company. It is a revolving drum that picks up its load by suction, and discharges by compressed air from within through a portion of the revolution. The United Filters Corporation of Hazelton, Pa., has advanced from the old Sweetland filter to many new models of de-watering apparatus. The Dorr Company of New York presented an elaborate display of equipment for thickening, de-watering and latterly for filtration. Plant equipment put out by this firm has invaded the entire industrial field, though at first designed with special reference to the exactions of mining and metallurgical practice. Despite the great field covered by such firms as the foregoing, it is not unfair to say that less progress has been made in thickening or de-watering than in actual filtration. The methods of feeding are often faulty, and the fundamental principle of the deposition of solids from pulp is in general erroneously applied.

One interesting class of exhibits meriting attention is the continuous centrifuge, which is being brought to a considerable state of perfection. It is a device that, in a perfected stage, has long been greatly needed, and will be very widely welcomed in the entire chemical industry, and in ore-dressing plants. One of these successful types is made by the Laughlin Filter Corporation of New York and the other by G. H. Elmore of Philadelphia. It is safe to predict a great future in the development of machines of this class.

The presentation of the Cottrell system of air cleaning by electrical precipitation accentuates the circumstance of a piece of high-class work by this distinguished scientist (Dr. F. G. Cottrell), so thoroughly done as to seem to leave no room for competitors. His system was represented by the equipment manufactured by the Western Precipitation Company of Los Angeles, Cal. With singular devotion to scientific research for its own sake, he turned over his patents to the Smithsonian Institution at Washington, for whose benefit, in aid of further research, the patents have been leased to an individual corporation. The story often has been told, but loses no charm in being repeated.

Florida Farmers, Regardless of Former Political Faiths, Demand Tariff Protection on Agricultural Products.

Florida East Coast Growers' Association, Inc.

Miami, Fla., September 22.

Editor Manufacturers Record:

A number of news items have been appearing in the papers of the State during the past few months in regard to meetings held for the purpose of interesting Florida growers in securing a protective tariff for their crops. At present there are over 80,000 pledge cards signed by voters desirous of having our agricultural products protected by a tariff high enough to prevent such enormous losses as occurred in Florida; it is indicative of the result of educating the growers whereby they have come to recognize that political faiths must be forgotten, and they must co-operate with each other for their common good.

In order that there may be no misunderstanding as to the real purpose of this movement, and to give correct information as to the past season's record, which caused this movement to be started, we give the facts as they really exist, feeling confident your readers will know the time has arrived when the growers must have the relief a protective tariff affords.

Tomato growers are not trying to increase the price of their products when they ask for a protective tariff on this and other crops. The growers will be well satisfied if they may be reasonably sure of securing a fair return for their labor and investments, and the tariff they are seeking will not increase the price of tomatoes in any section of the country. On the contrary, if a protective tariff is secured, the acreage of all crops will be much increased in Florida and prices kept within the reach of everybody.

Last season the growers produced splendid crops. Everything indicated they would receive a reasonable profit for their work, but just as soon as the foreign grown crops came into the Northern markets the prices offered the Florida growers for their tomatoes, peas, and such other crops as were forced to meet foreign competition, dropped below the cost of production, and thousands of dollars were lost by the growers.

During the past season Mexico shipped 4020 cars of tomatoes to the United States; Cuba's shipments totaled 639 cars, and the Bahamas produced and shipped 262 carloads, making a total of 4921 carloads of tomatoes shipped into the United States up to May 15, 1927, all competing with Florida grown tomatoes. The total shipments of tomatoes from Florida for the 1926-27 season was 10,076 carloads, and of this total shipment it is estimated the Lower East Coast section shipped a total of about 5000 carloads, or practically the same amount as was shipped in from foreign countries.

Foreign shipments arrive on the Northern markets at the same time Florida's shipments are at their height, the seasons being practically the same, thus demoralizing the market for Florida's products. Indications are that these foreign crops are to be increased for the next season, which means Florida's products will have just that much more competition to meet. Despite the prices paid the Florida grower, the consumer paid just as high prices as ever; offering the domestic growers less than the cost of production evidently did not secure lower prices for the ultimate consumer.

Most people are not aware of the vast difference in costs of growing crops in other countries as compared with producing a crop in Florida. It is not generally known by the consumer that the growers of America are faced with the prob-

lem of meeting foreign grown tomatoes (canned) which are shipped from Italy to the Baltimore market at a cost lower than the Eastern Shore section, embracing Virginia and Maryland, can produce them.

It is impossible for American growers to compete with the low wages paid by foreign growers. In Mexico it is possible to secure all the labor needed at a cost of 65 cents per day. Wages for labor in Cuba are very low, and in the Bahamas, where most of the work is done by women, plenty of labor is available at 65 cents per day for the women, and a maximum of \$1.25 per day for the men. Another item affecting the cost of the crops grown in these countries is that of fertilizers; about one-half the amount being used, just enough to give the plants a good start.

The growers are not asking for a "tariff for revenue only," but for a "protective tariff," solely for the purpose of securing protection from foreign grown crops, and to prevent becoming bankrupts. There is a small tariff on tomatoes at present amounting to one-half of one cent per pound, and the present tariff may be increased by the President 50 per cent, or to three-fourths of one cent per pound, which is not enough to provide adequate protection. A rate of 3 cents per pound will be asked, or such an amount as will be high enough to equal the cost of production in this country. The growers ask that they be placed on an equal basis with the foreign costs, so the advantage will not be with the peon labor of other countries. We feel certain no citizen of the United States wishes living conditions lowered to the point where labor may be employed at the low rates shown for foreign countries, and the only way the growers of Florida can compete with this underpaid labor is to have a protective tariff sufficient to enable the growers to secure a fair return for their labor and investments.

E. N. WEBB, President.

[The MANUFACTURERS RECORD heartily commends this movement. It shows that one by one the agricultural interests of the South are coming to realize that they need a protective tariff just as much as do the industrial interests. Now let the manufacturers and the farmers unite in a determined effort for a full protective tariff.—Editor MANUFACTURERS RECORD.]

Additional Details of \$14,000,000 Gas Line.

Additional details relative to the construction of the proposed 300-mile gas pipe line from the Waskom gas field in East Texas to Houston and Port Arthur, which has been undertaken by the Dixie Gulf Gas Company, Houston, at an estimated cost of \$14,000,000, have been supplied by O. R. Seagraves, president of the company, who wires from New York: "Dixie Gulf Gas Company awarded contract to Hope Engineering and Supply Company, Mount Vernon, Ohio, for construction of 21-inch gas line, including connections with intermediate communities. The A. O. Smith Corporation, Milwaukee, will furnish pipe; A. C. Horn Company, New York, will furnish coating, and the Hope Company will manufacture compressor and purchase all other equipment, such as valves and couplings."

As previously announced, the construction of the proposed line, which will have a capacity of approximately 150,000,000 cubic feet of gas per day, is expected to be completed by February 1, 1928.

Electrification of Eastern North Carolina and Its Rapid Industrial Development.

By S. E. BONEY, Director, North and South Carolina Public Utility Information Bureau, Raleigh, N. C.

Discussion of electric power development in North Carolina has heretofore centered largely about the Piedmont section of the State. More than a quarter of a century ago a hydro-electric power plant, designed with the view of supplying motive power for industrial purposes, was built on the Catawba River a few miles south of Charlotte.

Year after year, steadily and consistently, additional plants were built along the Catawba and throughout the Piedmont, supplying current for the varied manufactories that each year were added to the industrial activities of that section. Meanwhile, that portion of North Carolina east of Raleigh continued its pursuits along lines agricultural, experiencing little of the manufacturing activities which were revolutionizing the territory to the west. It is natural, therefore, that popular conception of electric development in North Carolina has included principally the pioneer section.

But, within a period of 10 years, a notable development has been under way in eastern North Carolina. That immensely rich territory east of an imaginary line extending southward from Roxboro, through Raleigh and on to Lumberton, while still primarily agricultural, is now undergoing a change. Manufacturing plants are beginning to spring up in all sections of eastern North Carolina. Industries of a varied character have been and are being founded, and vast stretches of level lands, heretofore devoted to growth of cotton and tobacco only, are dotted here and there with factories. Manufacture has invaded eastern North Carolina and it is pursuing its course in the wake of high voltage electric power lines.

There is no more certain index to this industrial growth than the records of the increase in the use of electric power, and those figures reveal also the remarkably brief period in which this development of eastern North Carolina has taken place. Records of the Carolina Power & Light Company, which serves possibly a greater area of eastern North Carolina than any other of the power companies, show that in 1916, just 11 years ago, the population in the territory served was 144,000, while in 1926 it was 383,000, an increase of 166 per cent. In 1916, the output of electricity by the Carolina company, including that produced in its own plants and that purchased for distribution, was 70,242,200 kilowatt-hours; in 1926, 10 years later, it was 426,399,700 kilowatt-hours, an increase of 508 per cent. In 1916, the company served 30 towns and cities; in 1926, it served 154, an increase of 413 per cent.

These figures show that increase in the use of electricity has far outstripped the population served, which is indicative of the fact that the facilities made available by this one power company have been employed in the development of industry. In other words, the kilowatt hours consumed per capita in 1916 was only 488, while in 1926 it had made the remarkable increase to 1113 kilowatt hours, or 225 per cent, which is representative of the growth of industry per capita. And it is interesting to note in this connection that in 1926 the kilowatt hour consumption per capita in the Carolina Power and Light Company territory was 1113, while the per capita consumption for the entire United States in 1926 was only 627 kilowatt hours.

Further indications of industrial growth in eastern North Carolina may be found in the fact the Carolina Power & Light Company in 1916 had 399 miles of high voltage transmission lines; in 1926, it had 1540 miles, an increase of 286

per cent. Miles of distribution lines in 1916 were only 295, while in 1926 they were 1329, an increase of 351 per cent. Ten years ago, the installed generating capacity of the Carolina company was 32,500 kilowatts; in 1926, it was 88,610 kilowatts, an increase of 172 per cent. But, the increases in generating capacity planned for the present year of 1927 carry a still greater significance: Plants are now building which will add 129,000 kilowatts to the output of the Carolina company. Two hydro-electric plants are now under construction by the company, while estimated expenditures on improvements and extensions for the year are \$27,000,000.

One of the new plants in course of construction is on the Yadkin River between Mt. Gilead and Norwood, to have an initial installed capacity of 83,000 horsepower with provision for the installation of an additional unit, making the ultimate capacity 112,000 horsepower. The other plant is in the western section of the State and is known as the Waterville plant, located on Pigeon River, 35 miles northwest of Asheville, and the total capacity of that plant will be 133,000 horsepower. In addition, the Carolina Power and Light Company has contracted to purchase approximately half the output of the Lexington Water Power Company, which is building a 200,000 horsepower station near Columbia, S. C. That power will be taken over the lines of the Carolina company, reaching through the Pee Dee section of the Palmetto State and distributed throughout both Carolinas' system wherever needed. These plans for such tremendous increases in the supply of electric power augur a marked development in industrial enterprises to consume that supply.

Indicative of the rapidity with which developments have come in eastern North Carolina is the fact that it was only in 1913 that two cotton mills at Lumberton began to use electricity as motive power and they were among the first served by the Carolina Power & Light Company. A little later, mills at Selma, Goldsboro and a few other localities installed power for operation, and today the Carolina Power & Light Company serves 68 cotton mills in eastern North Carolina. In addition, there are numerous gins and machine shops and other power users which in only the last few years have sprung up here and there and have turned to electricity for power.

In addition to the Carolina Power & Light Company, there are in eastern North Carolina two other large power companies whose expansions have contributed materially to the development of the electric power industry and, in consequence, to the growth of other industries in that section—the Tide Water Power Company and the Virginia Electric & Power Company, whose North Carolina headquarters are at Wilmington and Roanoke Rapids, respectively. In recent months, the Tide Water company has made large increases in the generating capacity of its plants at Wilmington and, to add to its supply of power, it maintains one connection with the Carolina Power & Light Company and a second connection is in process of building. For some time it has had a connection at Mount Olive and in a short while another will be established at Bladenboro.

The Tide Water Company does not lack faith in the development—development through the use of electric power—of eastern North Carolina. For months now it has been building its lines over what appears to be barren, swampy country, reaching out to the small communities to the northeast, the north, west and southwest. But, the Tide Water is, in fact, in the process of electrifying a potentially rich trucking

country. It has built lines to Chadburn, the center of Carolina's strawberry belt; to Whiteville, to Burgaw, to Wallace, Kenansville, Elizabethtown and other communities. It is covering the southeastern tier of counties in North Carolina and is now extending into contiguous counties of South Carolina. Just a few years ago, the Tide Water company was only a local industry in the city of Wilmington, but now, as are the other two, it is engaged in the electrification of all eastern North Carolina.

With the entry into northeastern North Carolina of the Virginia Electric & Power Company, a new order of things is being brought about. Two years ago, the towns and cities of that section which had electric power at all were supplied by inadequate, isolated plants—inadequate for present-day needs and incapable of expansions sufficient to attract power-consuming industries. With a power plant at Roanoke Rapids, the Virginia company established connections by way of Suffolk with its big generating plants throughout southern and eastern Virginia and immediately began a program of expansion, establishing a North Carolina division at Roanoke Rapids. The growing municipality of Elizabeth City early joined in the Virginia company's circuit and it was followed by many others, so that today the whole northeast is being spanned by the lines of the Virginia company as far southward as Halifax, Hertford and Bertie counties.

A glance at a map of North Carolina will show that, on a line from Roxboro through Raleigh and on southward, the Carolina Power & Light Company forms somewhat of a western line of advance; from the southeast the Tide Water company is extending northward and westward, and from the northern boundary of the State the Virginia company is extending southward and westward. Their operations are effecting the electrification of eastern North Carolina. After only a few years of this program of expansion, there remains only a small territory over which the high voltage transmission lines have not reached. That territory is in the section of which Greenville, Wilson, Washington, Kinston and other nearby cities are the center. With that exception, virtually all of eastern North Carolina is a part of one of the greatest super-power systems in the world, and the Carolina Power & Light Company, the Tide Water and the Virginia companies are the links which unite it in that system.

Possibly, the most important development in this growth of the electrification of eastern North Carolina is the consummation of that super power system. As noted, the Tide Water company has, or soon will have, two connections with the Carolina company, which has built its lines to the town of Battleboro, where connections have been established with the Virginia Electric & Power Company. Thus is effected the inter-connection among the three large companies of eastern Carolina. But, the connections with the outside power sources is of equal importance to the future developments in eastern Carolina.

Through the Carolina company's links with its own system in South Carolina and its connection with the Southern Power Company at Wateree, all the electric power sources to the south and southwest are brought within call of eastern North Carolina, which means Muscle Shoals and the big plants of South Carolina, Alabama, Georgia and Florida. In August of this year, the Carolina company completed a connection from Roxboro, N. C., to Danville, Va., with the Appalachian Power Company, the effect of which is to link this section of the State and all the systems to the South with all the power sources to the North, even up to the Great Lakes—this in addition to its connection with eastern Virginia. Further, the Carolina company will build a connecting link to Kingsport, Tenn., to tap the power supplies toward the West. Still another outside connection will be established between the Southern Power Company at Greenville, S. C., and the Carolina Power & Light Company's western lines.

Hence, it is seen that the Carolina Power & Light Company has connections with power sources at Mount Olive, Wateree, Bladenboro, Battleboro, Roxboro, Kingsport, Greenville and Badin. Most of this is only of recent development; some is still in the making.

The significance of all this is that the three big power companies which are operating in eastern North Carolina are preparing for a growth and expansion of industry of which there are thus far only hints. There must be consumers for the additional power that is being generated and contracted for; but, the power companies have faith that power-consuming industries will be forthcoming—in fact, one of their primary activities is to induce the coming of those industries. The power companies are interested in and engaged in not only the electrification, but also the industrialization of eastern North Carolina.

Advocates Steel Sheet Piling for Levee Work.

Wemlinger, Inc.,
Steel Sheet-Piling.

New York, September 24.

Editor Manufacturers Record:

I was interested in a letter written to you recently by T. Alexander Hunter of Washington, regarding levees. He is right in calling attention to the fact that work should be started shortly on new levees in order to allow ample time for their settling before the next spring flood comes along.

However, levees without core-walls will never be absolutely dependable and safe. The best levee built up of nothing but clay or similar material will not stand up against leaks or boils or overflow. The first two undermine and destroy its stability, the latter dissolves it away.

It might as well be realized now, as it will have to be ultimately, that a continuous and watertight core is a real necessity. The same will prevent destruction of levees by both leaks or overflow.

What is the most economical type of core? Under certain conditions concrete may be used to advantage, but a concrete wall, no matter how thin it could be used in levees, needs some sort of foundation. This means that the core must be built-up together with the levee itself. In any case, it cannot be conveniently and cheaply inserted in a levee already built. Therefore, sheet piling is the only core that can be considered from a practical standpoint. Wood sheet-piling has the advantage of low first cost. However, it cannot be safely driven in long lengths into a levee and even if it could be, it can neither be depended on to be watertight nor safe against decay.

Concrete sheet-piling is, of course, quite durable but also costly to drive. However, the principal objection to its use is that, unless it is fitted with interlocking steel edges, it cannot be depended upon to form a continuous and watertight core.

Steel sheet-piling, on the other hand, can be driven satisfactorily in lengths up to 70 feet, and even longer, if necessary. Because of its interlocking feature it assures a continuous core-wall, and it is watertight. A levee with a steel sheet-piling core extending well below the base cannot leak. neither can it be undermined. Overflow cannot scour away the levee except to the extent that its top may be above the sheet-piling. Furthermore, steel sheet-piling can easily be driven in old as well as in new levees. Buried in the closely packed soil of a levee it will last indefinitely. It is obtainable at a reasonable cost.

Consequently, steel sheet-piling is, I believe, the most important material to consider in connection with Mississippi River flood protection.

J. R. WEMLINGER, President.

Ample Facilities at New Orleans for 1929 Road Show.

Several articles have appeared in recent issues of the **MANUFACTURERS RECORD** inviting the American Road Builders' Association to hold its annual Convention and Road Show in the South in 1929, with particular emphasis upon the availability of New Orleans. The 1928 Road Show is to be held in Cleveland, January 9 to 14.

Sam Fowlkes, Executive Director of the New Orleans Convention and Publicity Bureau, further presents the case for New Orleans and its ability to hold the 1929 Road Show in the South in the following:

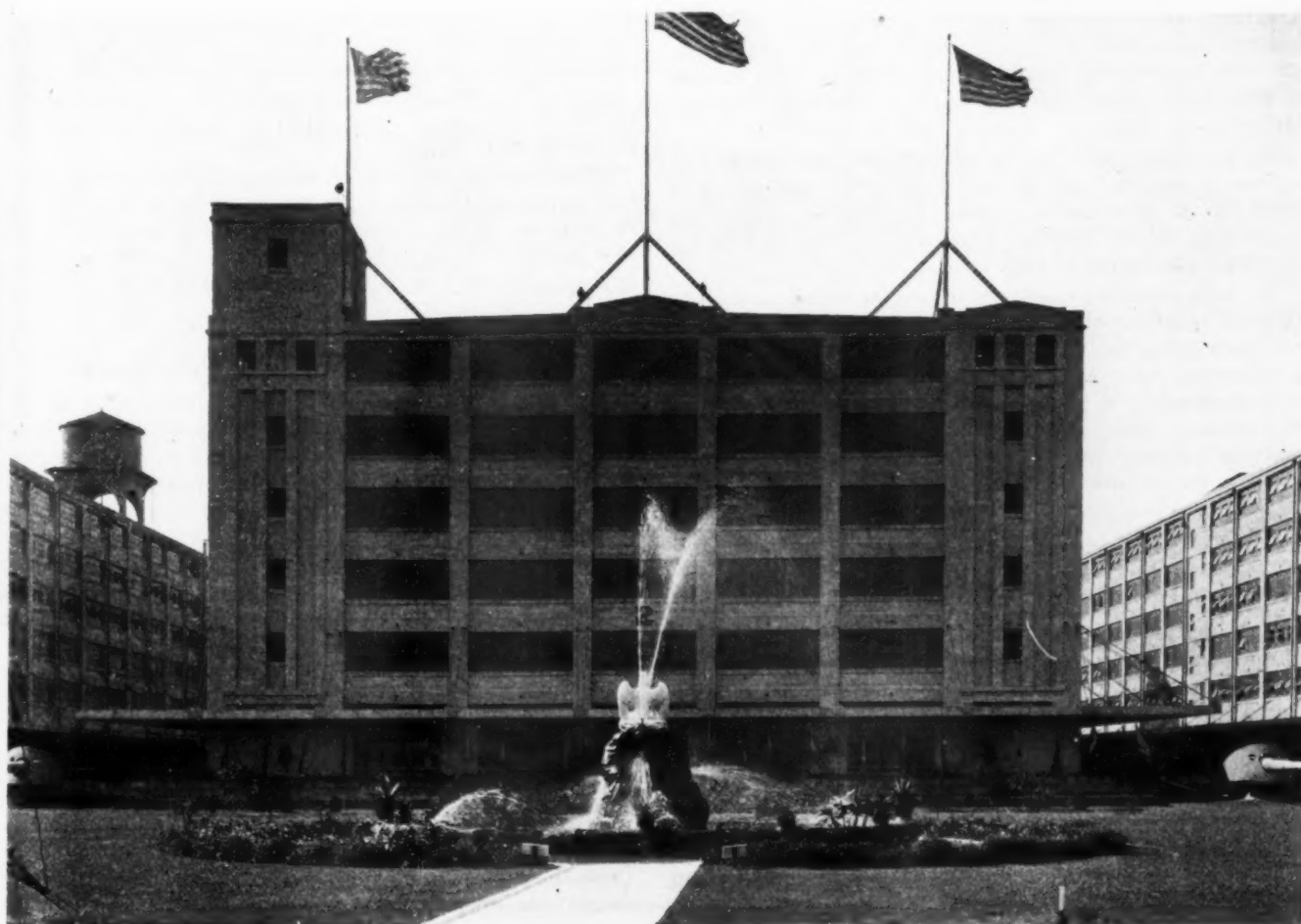
"New Orleans would certainly make a most central and most ideal place for this great event, offering both sufficient hotel accommodations and exhibit space. Our International Trade Exhibit Building has more than ample exhibit space for the show and offers this under almost ideal conditions for an exhibit of this nature."

At the suggestion of P. Verhey, Southern District Manager, New Orleans, of the Chain Belt Company, Milwaukee, Mr. Fowlkes sends the **MANUFACTURERS RECORD** the accompanying view of the building which is available for the housing of the 1929 convention and road show.

The building is one of three units erected by the Government during the war as an army supply base at a total cost of \$5,000,000. Each unit is 150 feet wide, 600 feet long and six stories high, of solid concrete construction and absolutely fireproof. The rear of the building faces the Mississippi river and a shipload of machinery can easily be unloaded at its back door. On each side there are three lines of railroad tracks, so that practically 100 carloads of freight can be unloaded at one time. The cars unload on concrete platforms capable of sustaining the heaviest machinery and they are 25

feet wide and on a level with the floor of the cars, so that the loading and unloading of heavy machinery can be handled with the least effort. Six large elevators of modern type serve the building. The ventilation is regarded as perfect, with a solid tier of windows extending around all sides and almost the entire height of each floor, making artificial light unnecessary during daylight hours. Water, gas and electricity for the operation of machinery in any quantity is available in the structure. The building is equipped with a first-class cafeteria and has every facility for handling large crowds. In front of the building is a large lot which could be used to advantage for the practical demonstration of heavy road machinery. With the four floors of the building available for the show, together with the two unloading platforms which could be used for exhibition purposes and the large lot adjoining, there could be provided with ease 500,000 square feet of space. The exhibit building is close to the hotels and downtown district. Splendid taxi service would be provided; two street car lines also serve the building.

In this connection Mayor Arthur J. O'Keefe of New Orleans has written a letter to exhibitors at the Annual Road Show held in connection with the American Road Builders' Association's Convention, in which he presents additional reasons for holding the meeting and road show in New Orleans in January, 1929. "In the first place," he says, "the South is spending hundreds of millions of dollars on good roads. This epoch of road building is just beginning. It is in its infancy, so to speak. Therefore, it is quite fitting that you give consideration to holding a meeting in the South. Furthermore, New Orleans' trade with Cuba, Mexico and South and Cen-



INTERNATIONAL TRADE EXHIBIT BUILDING, WHERE NEW ORLEANS OFFERS TO HOUSE 1929 ROAD SHOW.

tral America is enormous. These countries are beginning to make remarkable progress in road building and in the next few years will show a very marked increase. Another delightful thing about the whole matter is the wonderful weather in New Orleans in January when you will find the grass is green and the flowers are blooming." Mayor O'Keefe believes the officials in charge of selecting the place for the meeting and show in 1929 would make no mistake in coming South and to New Orleans.

\$75,000,000 to \$90,000,000 Estimated Expenditure by Arkansas Power and Light Company in Next 13 Years.

Arkansas Power and Light Company.

Pine Bluff, Ark., September 30.

Editor Manufacturers Record:

The increase and prospective demands for electric power in our territory is ahead of the estimates we made four years ago. We are installing two additional units at the Sterlington plant in the natural gas fields of Louisiana; each of these two units is of 40,000 horsepower capacity and will give Sterlington a capacity of 120,000 horsepower. Sterlington was designed for extension to 200,000 horsepower and put into service in November, 1925, with a capacity of 40,000 horsepower.

We thought at that time that with our other plants this would be sufficient for two or three years, but the establishment of additional paper mills, cotton mills and other industries and the adoption of electric power by established industries and growing load in the rice territory has shattered our estimates.

Sterlington is tied in with Mississippi, Louisiana and Arkansas power and light systems, connecting up hydro-electric stations on the Ouachita and Illinois rivers in Arkansas, and a number of steam stations, including our stations at Pine Bluff, Little Rock, El Dorado, Camden, Russellville, Malvern and others.

We are planning to begin work in the near future on another power dam on the Ouachita River, the second of three for the development of 200,000 horsepower hydro-electric energy on the Ouachita which was contemplated in the program inaugurated in 1923.

We have abundant capacity for present demands, but the increase is ahead of our previous estimate, and therefore, we are moving up our program. We estimate that during the next 13 years we will add \$75,000,000 to \$90,000,000 to our investments in power plants and transmission systems in Arkansas. This to include the Ouachita development, and probably hydro-electric development on other streams where we have power sites.

A. G. WHIDDEN, Advertising Manager.

New Coal Company Capitalized at \$1,275,000.

R. T. Daniel, president of the Consolidated Coal Company, Birmingham, recently organized under the laws of Delaware with a capital stock of \$1,275,000, advises that the company will develop the Bankhead property near Jasper in Walker County, Alabama, served by the Northern Alabama and Southern Railway. A coal mine on the property with a capacity of 1500 tons per day will have its production increased by the installation of additional electrical machinery on the inside of the mine, with a modern washer and preparation plant. The improvements will involve an outlay of approximately \$200,000 and plans are now being considered for covering the washer and preparation plant. P. L. Dreyer of Birmingham is the consulting engineer.

New Mechanical Cotton Harvester Reported a Success in Texas.

Austin, Texas, October 1—[Special.]—Experiments by the International Harvester Company in the practical use of mechanical cotton-pickers were so successful in Texas during the present season that the general adoption of the new method of harvesting the cotton crop is regarded as being near at hand. In order to have a thorough test, the company placed eight of its machines in fields in different parts of Texas at the beginning of the picking season. These will be kept in operation until all the cotton in the state is picked. They are moved about as the cotton opens, and the last of the season's experiments will be in the South Plains of Northwest Texas, where conditions for mechanical cotton-picking are said to be ideal. While the company has perfected the machine to the degree that it is offered for sale to the farmers on a guarantee that it will pick cotton with as much perfection as that of the hand method, the demonstrations being conducted in the fields have brought to light several small defects which will have to be remedied in order to make it all that it should be in the matter of gathering the open cotton. It is asserted, however, by the company's experts who are directing the operation of the machines that such improvements in the picking mechanism as the season's experiments have shown to be necessary will be made before next year's crop is ready for harvesting.

The percentage of the open cotton picked by the machines is found to vary according to the height of the stalks and other field conditions. In some cases it has averaged more than 90 per cent and in other instances it was as low as 80 per cent, it was stated. It is regarded as probable that it may be found necessary, even after the machine is pronounced practically perfect, for hand-pickers to go over the fields and collect whatever remnants the machine has failed to gather. The machines being used this season pick 7 to 10 acres of cotton a day, amounting to two to five bales. This does away with seven to fifteen hand-pickers and means an enormous saving to the farmer. Mechanical picking does no injury to the staple, it is stated.

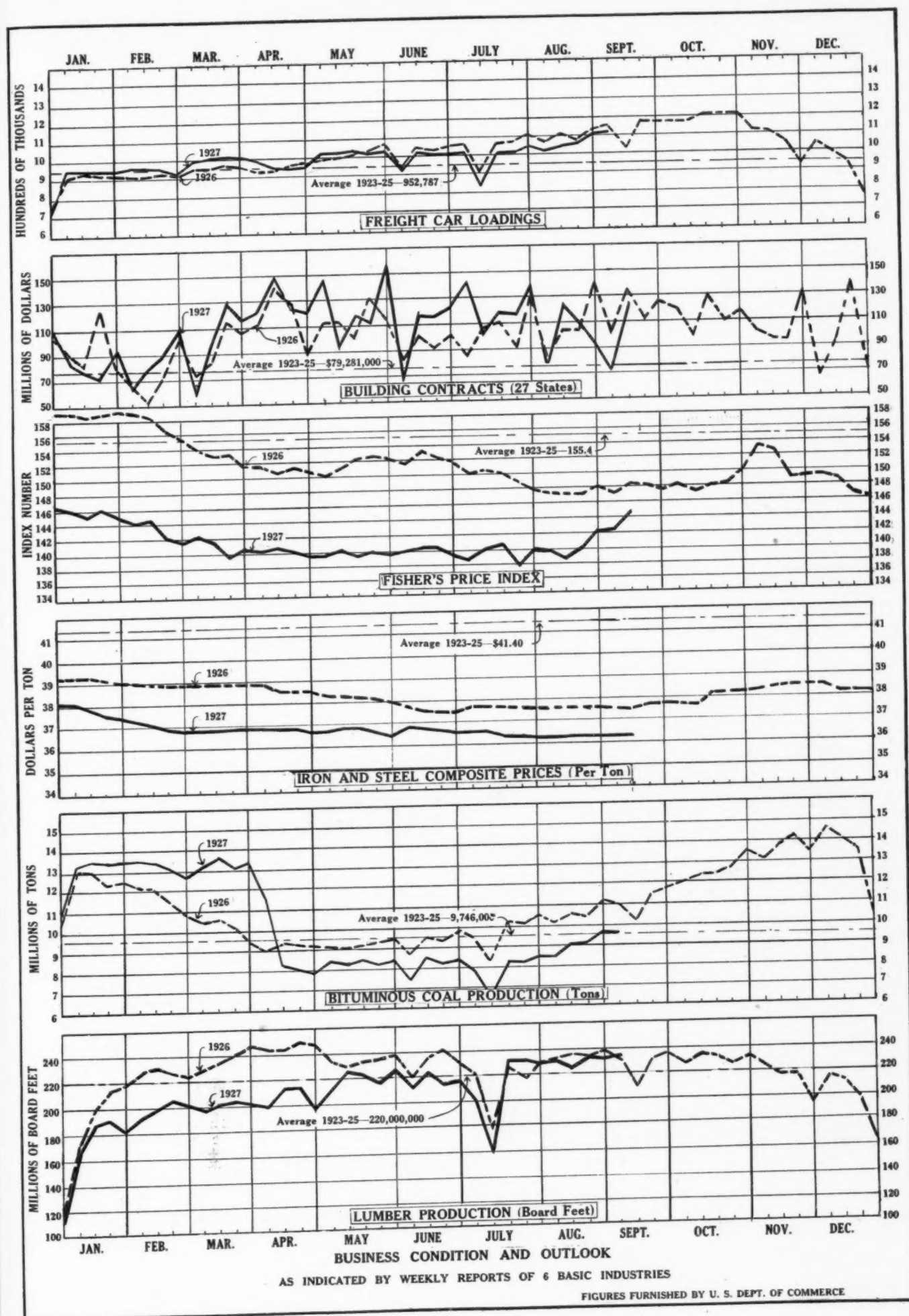
If the machine should come into general use, it is probable that cotton will be planted in wider rows, the width increased to about 40 inches in order that the machine may give the best possible service, it is explained. In narrow rows some slight damage is done to overlapping cotton plants.

The Question of Capital Punishment.

The Congressional Digest, Washington, D. C., in its August-September issue broadly considers the question of capital punishment, taking up in order the powers and limitations of Congress and the States, and the present Federal and State laws dealing with capital crime, the subject being finally treated in a series of arguments pro and con upon the question "Should Capital Punishment Be Retained." These arguments are by members of Congress, judges, attorneys, wardens, editors, publishers, authors, ministers and penologists. The book is finely printed on substantial, tinted paper. It is a product of the plant of Fleet-McGinley, Inc., Baltimore, Md.

Will Vote on \$375,000 Bonds for City Hall.

Columbia, Mo.—An election has been called in this city for October 18 on a bond issue of \$375,000 for the erection of the proposed new city hall. Tentative plans call for a three-story structure. As previously announced, the city council has selected Eckel & Aldrich of St. Joseph, Mo., as architects, and Bill & Traber, Columbia, associate architects.



\$15,500,000 for Commercial Buildings in Tulsa.

[Special Correspondence Manufacturers Record.]

Tulsa, Okla., October 3.

Almost 200 stories of stone and brick buildings for strictly commercial use have been completed, are in the process of construction or have been announced in Tulsa since January 1 of this year. The exact count is 197 stories. The amount involved is \$15,500,000.

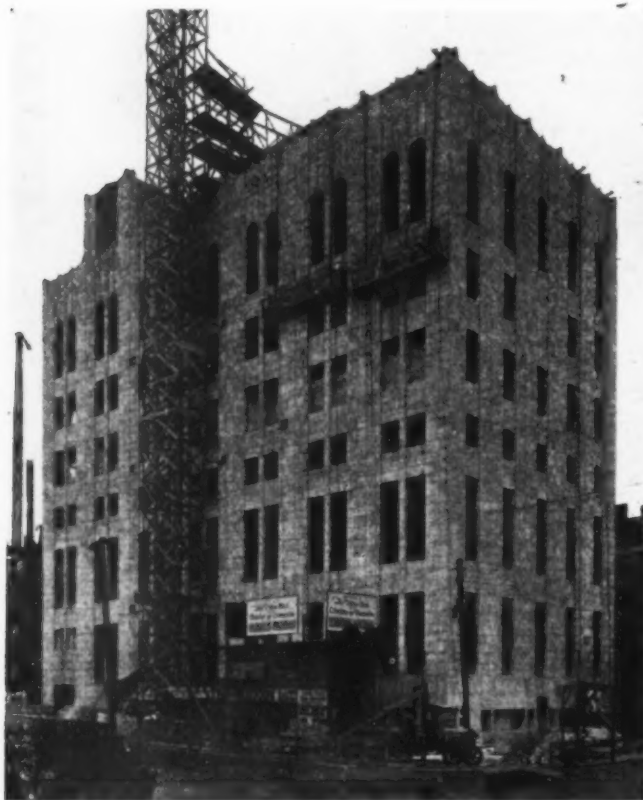
Nineteen projects figure in this compilation. The smallest structure is two stories in height, to cost \$100,000; the largest is 27 stories and will cost approximately \$2,500,000. Four of the projects have been completed since the first of the year and are in service. These are: The Tulsa Trust Company addition to the Tulsa National Bank, the Seidenbach Store, the K-C Auto Hotel and the Page Warehouse. Three others, the Chamber of Commerce-Tulsa Club, the Medical Arts Building, each 11 stories, and the Tulsa Business College are nearing completion and will soon be ready for occupancy.

Rapid progress is being made on five other projects, the Philtower, the Exchange National addition, the McBirney and the Commercial buildings and the New Morningside Hospital.

On four of the remaining eight undertakings, on the Brown-Dunkin addition, Oklahoma Natural Gas, Mincks Hotel and the Cortes Hotel, plans have been drawn and architects' perspectives prepared. In the case of Brown-Dunkin the steel contract has been let and construction is to start soon on the other four. A revision in plans for the Public Service building has held back construction, and the two remaining

pilation. The First Baptist was finished early this year at a cost of \$600,000; the First M. E. is rapidly nearing completion and represents an investment of \$750,000; steel is going up for the Boston Avenue Methodist, an edifice to cost \$800,000. The total on these three churches is \$2,150,000.

The building program reviewed here does not consider industrial enterprises, public improvements or residential growth, but it is a safe prediction that the total of Tulsa building permits for the year will set a new high record. Certain it is that Tulsa, by the attitude of its own men of



\$600,000 CHAMBER OF COMMERCE-TULSA CLUB BUILDING TO BE OCCUPIED THIS MONTH.

enterprises, the Alexander hotel and the Alexander office building, have been so recently announced that specifications are not yet prepared.

Churches have not previously been considered in this com-



27-STORY EXCHANGE NATIONAL BANK BUILDING TO COST \$2,500,000.

affairs, has demonstrated that here is an excellent opportunity for investment, for the tremendous building campaign did not get under way by the mere signing of a contract or the announcement that "We will build such and such a building on this or that location." Close and careful analysis of Tulsa's steady progress and growth and cautious surveys by experts have in practically every case gone before the announcement of each new project. Tulsa's investors have convinced themselves the city is ready, else this phenomenal program would not be under way.

The projects considered in the 197-story program are:

Philtower, office building and tower of 21 stories, Bedford stone and brick. Superstructure completed, stone and brick work progressing rapidly. Cost \$2,500,000.

Exchange National Bank addition and tower of 27 stories. Sub-masonry and caissons installed, steel ordered. Cost \$2,500,000.

McBirney Building, 11 stories of brick and terra cotta. Exterior practically completed and interior work progressing rapidly. Cost \$600,000.

Medical Arts Building, 11 stories, of brick and terra cotta. Ready for occupancy by December 1. Cost \$800,000.

Chamber of Commerce and Tulsa Club Building, 11 stories,



NEW BUILDING COMPLETED FOR FIRST METHODIST
EPISCOPAL CHURCH AT COST OF \$750,000.

of brick and Bedford stone. Now ready for occupancy. Cost \$600,000.

Morningside Hospital, five stories, of brick and stone. Exterior practically completed. Cost \$600,000.

Commercial building, seven stories. Brick work completed, ready for tenants the first of 1928. Cost \$300,000.

Brown-Dunkin addition of 11 stories, terra cotta, making a 15-story building. Steel contract let. Cost \$650,000.

Tulsa Business College, two stories, nearing completion, \$100,000.

Buildings completed are:

Tulsa Trust Company addition of 10 stories, \$600,000.

Seidenbach's store of 4 stories, costing \$1,000,000.

The K-C Auto Hotel of 6 stories, \$200,000.

The Page Warehouse, 6 stories, \$400,000.

Buildings announced, but not yet under way, are:

Oklahoma Natural Gas Company, 10 stories, \$750,000.

Public Service Company, 6 stories, \$750,000.

Alexander Building, 10 stories, \$600,000.

Alexander Hotel, 14 stories, \$1,500,000.

Mincks Hotel, 14 stories, \$500,000.

Cortes Hotel, 14 stories, \$750,000.

Bids for 11,500 Feet of Sewer Lines and Equipment for Sewage Plant.

The Greater Greenville Sewer District Commission, E. D. Fry, superintendent, Greenville, S. C., advises that bids will be opened October 18 for the construction of approximately 11,500 feet of sewer lines. These will consist of 24-inch, 21-inch, 18-inch and 15-inch pipe to extend from the junction of the 18-inch line recently constructed along Richland Creek, and the 36-inch line nearing completion from the sewage treatment plant along Reedy River to the mouth of Richland Creek, along Reedy River to the main line of the Southern Railway.

Bids will be opened at the same time for installing electrical equipment in the sewage treatment plant.

Growth of the Citrus Industry.

In 35 years the citrus fruit crops have increased tenfold, from 5,000,000 to 50,000,000 boxes annually, states the Agricultural Department. A series of profitable years during and immediately after the war led to an expansion of acreage which is not yet in full bearing, so the prospect is for considerably increased production within a few years. In the five years from 1920 to 1924 nearly 10,000,000 orange trees were planted in Florida, where the number of trees bearing fruit in 1924 numbered only 7,306,000.

Power Company Announces \$25,000,000 Expenditure—Part of \$100,000,000 Program Contemplated.

Charlotte, N. C.—According to an announcement at the offices of the Southern Power Company, the Duke interests plan a construction program for the development of hydro-electric properties in North Carolina and South Carolina, to involve an expenditure of \$25,000,000. Details of the projects have not been disclosed, but it is understood that plans have been definitely outlined. The determination to inaugurate the program has been due to the increasing demand for hydro-electric power, it is said, which will make much additional construction necessary in 1928.

The program to be undertaken will be a part of a plan which is estimated to involve the expenditure of \$100,000,000 in its execution. This will call for much construction in 1929, but it is understood that definite plans for projects to be undertaken at that time have not been worked out. The 1930 program will not be so large as it would be otherwise, it is stated, because the big Barstow project near Saluda, S. C., will be placed in operation in that year, with half the power generated there to be available for distribution over the transmission lines of the Southern Power Company, a Duke enterprise.

The anticipated demand for additional power for industrial operations in the two Carolinas during 1928 is expected to be met by power supplies from large hydro-electric developments now under construction at High Rock and Oxford Shoals, the former being built by the Tallahassee Power Company, a subsidiary of the Aluminum Company of America, Pittsburgh, Pa. The Oxford Shoals plant will deliver energy to the Southern Power Company, as well as other plants of the Tallahassee Power Company after the completion of the High Rock plant. It is stated that approximately 40,000 kilowatt hours of electric energy are now being sold annually to the Duke interests by the Aluminum Company of America, and this output will be increased to 172,000 kilowatt hours per annum next year.

The Duke company, it is explained, is providing for the future on a development program which will provide a 9 per cent increase in power output compounded annually, as its officials believe the future development of these two States will depend upon the availability of ample supplies of hydro-electric power. The company now has 12 plants in operation on the Catawba River, in addition to a like number in various other locations and five steam-electric plants. Those are supplemented by supplies of power from other transmission systems which form a part of the Duke system.

Preparing Plans for Two Virginia Churches.

Plans are being prepared by Herbert L. Cain, Richmond, Va., architect, for a new church and Sunday school building for the First Baptist Church at Petersburg, Va., to cost about \$200,000, and will be ready for estimates in about 60 days. He will also have plans ready about the same time for a new church and Sunday school building for the Jefferson Street Baptist Church at Roanoke, Va., to cost approximately \$70,000.

\$400,000 Power Plant and Transmission Lines.

Texas City, Texas.—Plans for the construction of a power plant here by the Texas-Louisiana Power Company, Fort Worth, together with wooden pole transmission lines in Galveston county, have been announced by the company. It is understood that Dickenson and League City will be linked and lines built to Texas City and to Clifton-by-the-Sea via San Leon. The cost of the project is estimated at \$400,000.

United States Chamber of Commerce Backs Fight For Federal Control of Flood Problem.

New Orleans, La., October 3 (Special).—Into the fight for putting the national government squarely behind the flood-control problem, and preventing a repetition of last spring's disaster when the Mississippi and other rivers poured such swirling destruction down the Valley, the United States Chamber of Commerce has now swung with all the influence it can bring to bear.

A special committee has been inspecting the lands that were desolated a few months ago, and analyzing the various remedies proposed to meet the situation. It went over the entire flood territory in Louisiana; and while members were impressed at the speedy recovery of this state, at least so far as the outward and visible signs are concerned, they are unanimous that the problem is one that can be solved only by the federal agency. They are not making any recommendations as to the details, leaving that for the engineers to point out, but they are insisting that this time, every man expects Uncle Sam to do his duty.

Lewis E. Pierson, president of the Chamber of Commerce of the United States, told business men at a banquet in New Orleans, September 26, that the Chamber will insist that the government take charge. His opinion was echoed by M. S. Sloan, president of the Brooklyn Edison Company, who said that "the United States Chamber of Commerce has gone in because its members believe the problem of controlling the Mississippi is of the greatest national importance. We propose to make it our job to help you inform the people of the United States about the real situation."

Said Robert P. LaMont, president of American Steel Foundries of Chicago, and vice-chairman in charge of the flood control committee:

"Our group has discussed spillways, reservoirs, levees and other methods proposed to control the river, with many spokesmen of the various remedies. It is not to be expected that we, from our short study, could be in a position to tell engineers who have spent their life's work on the problem, what to do, and so neither I nor, I am sure, any other member of the committee would be willing to express an opinion; it would not be worth much if we did. But I do feel convinced that there should be a national policy."

George Schoenberger, chief state engineer of Louisiana, conducted the party to the scene of the Caernarvon break, 14 miles below the city, by which New Orleans demonstrated the spillway principle and relieved the pressure upon the levees above New Orleans; relieved it at its own expense. He discussed the construction of the new levee, more than a mile in length, that is now being built to stop the gap at an approximate cost of \$200,000. This artificial crevasse will have cost New Orleans several million dollars, when the last indemnities have been paid.

Senator Ransdell, Congressman O'Connor, the city commissioners, and a large group of New Orleans business and professional men accompanied the visitors on their tours.

Those in the party of the United States Chamber of Commerce were:

William Butterworth of Moline, Ill., president of Deere & Co., a vice-president of the national chamber; Daniel W. Mead, professor of hydraulics of the University of Wisconsin; Randell T. Moore of Shreveport, a director of the national chamber; Robert P. LaMont, president of the American Steel Foundries, Chicago; former Governor John G. Lonsdale, president of the National Bank of Commerce, St. Louis; M. S. Sloan, president of the Brooklyn Edison Company; Alfred H. Stone, vice-president of the Staple Cotton Growers' association, Dunleith, Miss.; J. B. Leigh of L. B. Leigh & Co., Little Rock, Ark.; William Pfaff of Searcy and Pfaff, New Orleans; Frank C. Page of the United States Chamber staff, in charge of the party; Walter D. Brookings, secretary of the flood control committee; Joseph F. Leopold of Dallas, manager of the Southern Central division; Ben H. Lambe, chief of the publicity department; James Moore, secretary

to the president of the national chamber; E. A. Hadley, chief engineer of the Missouri Pacific System; R. S. Mitchell, chief engineer of the Texas and Pacific; C. S. Kirkpatrick, chief engineer of the Missouri Pacific Lines in Texas; Frank Jensen, assistant general passenger agent of the Texas and Pacific, and E. H. McReynolds, of the Missouri Pacific Magazine.

Du Pont Rayon Company Reported to Build \$10,000,000 Plant at Richmond.

Richmond, Va.—Surveys incident to the construction of an immense rayon plant here estimated to cost from \$8,000,000 to \$10,000,000 have been begun by the Du Pont Rayon Company of Buffalo, N. Y., according to information from the offices in Wilmington, Del., of E. I. du Pont de Nemours & Co., which is identified with the Buffalo company. Formal announcement has been made of the purchase of a tract of 525 acres of land adjoining the Bellwood farm, on the Petersburg turnpike, about two and one-half miles from the Richmond city limits, for the location of the proposed plant, which is expected to employ from 2000 to 3000 operatives.

Allen J. Saville of Richmond, who conducted most of the negotiations for locating the project at Richmond, will work out engineering details. In addition to Mr. Saville, it is understood that the Chamber of Commerce, A. L. Adamson and Darnley Adamson, realtors, of Richmond, and others were instrumental in having the enterprise locate here. Negotiations for the purchase of the site were conducted on the basis of a special report prepared by Mason Manghum, business manager, and La Motte M. Blakely, secretary of the Chamber of Commerce.

The Du Pont Rayon Company wires the MANUFACTURERS RECORD: "Have purchased tract of land near Richmond, Va., for possible future plant expansion. Beyond this we have nothing further we can add."

Following the official announcements of the purchase of the site for the proposed rayon plant, it was reported that a wood-pulp plant and a plant for the manufacture of menthanol would be constructed as a part of the development at an additional expenditure of approximately \$10,000,000. Regarding the wood-pulp and menthanol plants, the Du Pont Publicity Bureau, Wilmington, Del., wires: "No truth in reports referred to."

Contract for \$750,000 School Unit.

Confirming a report that it has contract for the erection of a \$750,000 unit for the Berry School at Rome, Ga., the Thompson-Starrett Company advises from its Atlanta office that construction will embrace two buildings, one of which will provide for an auditorium, class rooms and laboratories, and the other for recreation purposes and to house the heating plant. They will be from one to five stories, with rubble stone walls, limestone trim and slate roofs. The installation of mechanical equipment is included in the general contract. Coolidge & Carlson of Boston, Mass., are the architects. Work is expected to be completed by September 1, 1928.

Louisville Bank to Erect New Building.

Press reports from Louisville, Ky., state that the Louisville National Bank and Trust Company has purchased a site on the north side of Market street, west of an alley between Fourth and Fifth streets, for the erection of a new building. The company advises that its proposed building will probably be a one-story structure, exclusively for the bank, 75 by 160 feet, architect not having been selected as yet.

Is There a Power Combine Affecting the Public Welfare?

THIS SUBJECT AND OTHERS TO BE DISCUSSED AT THE MEETING OF THE SOUTHERN APPALACHIAN POWER CONFERENCE AT CHATTANOOGA, OCTOBER 13-15.

[Special Correspondence Manufacturers Record.]

Chapel Hill, N. C., October 3.

In an interview with Colonel Joseph Hyde Pratt, chairman of the Executive Committee of the Southern Appalachian Power Conference, who is making final arrangements for the third meeting of the conference to be held in Chattanooga, October 13-15, Colonel Pratt stated that one of the subjects of peculiar interest for discussion at the conference is, "Is There a Power Combine Affecting the Public Welfare?" We are certainly hearing, Colonel Pratt stated, that there is a power combine or trust which is interfering with the development of water powers in the several states which, if developed, would meet the requirements of many small industries that are waiting such development; and "that the supposed power combine or trust is preventing the people of this country from obtaining power and light at a low price." This subject will be ably discussed at the Conference by J. T. Newcomb, counsel for the Joint Public Utilities Association, and others. Those who attend will have an opportunity of learning at first hand what is being done in the Southern Appalachian states in connection with the development of water powers, how they are operated and regulated. In connection with this question of a power combine will be a discussion of power administration, both from the standpoint of the producer and the consumer.

There is no question, Colonel Pratt stated, that the wonderful industrial development of Piedmont North and South Carolina is due in a very large measure to the water power developments that have been made by the Southern Power Company; a similar industrial development in Eastern North Carolina, Georgia, Alabama and Tennessee is due to the large water power developments made by the several power companies in these states. That these power companies are interconnected has been of wonderful assistance to North Carolina during the droughts of 1923 and 1924 when power was relayed by the Alabama Power Company to the Georgia Power Company, who in turn relayed power to the Southern Power Company, and it in turn relayed power to the Carolina Light and Power Company which was enabled by this means to furnish power to its clients and thus the mills in the vicinity of Raleigh were kept in operation and the employees kept at work. This could not have been done if there was not a close relationship and co-operation between these four companies which permitted the excess of power in Alabama to be relayed to North Carolina.

Following this subject of a power combine there will be related subjects discussed such as state regulation versus government operation; state water power laws and their importance from standpoint of Federal Water Power Act; and whether the Federal Power Act invades the rights of the states.

Another general subject is, "Agriculture and Industry." This will be considered under several heads. The first will be "Relation of Agriculture to Industry"; it is expected this subject will be discussed by William N. Jardine, secretary of Agriculture, followed by a subject that is attracting a great deal of attention at present, "Decentralization of Industry." The value to a state of decentralization of industry is well illustrated in North Carolina where there are many industrial communities and no concentration of many indus-

tries in one center. That this condition has reacted very favorably to the growth and development of the state is acknowledged by all.

Perhaps the most interesting subject under this general head of agriculture and industry is the electrification of rural sections and farms. Colonel Pratt stated that it might be said the majority of farmers now want electricity primarily for lighting, but, the cost of serving widely-scattered farms with electric service simply for lighting would be very expensive and in some cases prohibitive. Therefore, the question to solve is: How can a farmer use electricity so as to make it earn its cost? The larger the quantity of electricity used by the consumer, the cheaper the rate per kilowatt hour, but, unless the farmer can earn or save its value by its use, it is not economical to use electric service. For instance, it would not be considered economy to install a milking apparatus for one or two cows, while it would be economical, and the electric service earn its cost, if applied to the milking of a large herd. The same would be true in installing apparatus for cutting and grinding feed for livestock. It is economy for a large number of cattle but not for a few.

There are many other uses for electricity on farms, such as thrashing, hoisting hay, pumping water for livestock and irrigation, separating cream, fanning mill for small seed, incubation, brooding, refrigeration, operating saws, etc. In the house there are many uses, such as the electric iron, electric ranges, curling irons, fans, vacuum cleaners, washing machines, dishwashers, sewing machines, etc. It is necessary, in many cases, for the farmer to change his methods of doing work if he is to realize full benefits of electrification.

The high cost of equipment has undoubtedly retarded in many instances the use of electrical apparatus on the farms, but it is believed that if investigations are continued there will be increasing demand for the various electrical appliances so that they may become standardized and their prices reduced.

Another subject for discussion is "The Use of Power From Muscle Shoals." At the present time, Colonel Pratt said, in the world water power development the outstanding project is perhaps Muscle Shoals. The Muscle Shoals development is now owned by the federal government, is selling power to the Alabama Power Company as, at present, that is the only organization in a position to utilize this power. When Muscle Shoals was developed it was for the purpose of providing electric energy to be used in the manufacture of nitrates and was a war measure. It was not constructed for the distribution of electric energy, but this energy was to be used at its source. To utilize this power transmission lines are necessary for its distribution. If there were industries in the vicinity of Muscle Shoals who were now being furnished power generated by steam there would probably be no question raised but that they should be offered the first privilege of using electric power developed at Muscle Shoals. If these industries were of sufficient magnitude to utilize all the power that could be generated at Muscle Shoals, it would undoubtedly be the fair, just and efficient use to make of this power. In this case there would be a question as to whether the government should operate the power plant and sell and distribute electric energy, or lease the plant to a public utility

corporation. The cost of power to the consumer in this case would come under the state regulations. However, there are no industrial plants in the immediate vicinity of Muscle Shoals in a position to utilize any of this power except perhaps the nitrate plant erected by the federal government. It is now a question whether this plant represents an efficient and economic medium for the manufacture of nitrates.

The consumer cannot come to the power generating plant and carry the power back with him. It has to have transmission lines over which it can be conveyed to the point where it is to be utilized. The question of the use of power from Muscle Shoals should not be permitted to hold up and prevent the development of powers on the Tennessee River and its tributaries above Muscle Shoals. The Muscle Shoals controversy is acting as an embargo on development of these other powers. It is not the purpose of the conference to try to solve the Muscle Shoals problem, but it is its desire to call attention to the many fallacies regarding Muscle Shoals and to bring to the people pertinent facts relating to cost of transportation and distribution of power, industrial demand for this power and the retarding of industrial development in the South by the embargo on further power development on the Tennessee River caused by the Muscle Shoals controversy.

While special delegates, said Colonel Pratt, are being appointed to the Conference by the governors of the twelve states composing the conference, by mayors of many of the cities in these states, by commercial, industrial and agriculture organizations, by power and manufacturing companies, and by universities and colleges, the sessions of the conference are open to all interested in any of the subjects, and a cordial invitation is extended to all interested to attend sessions of the conference which will be held in the Patton Hotel, Chattanooga.

Making Plans for Five Buildings to Cost \$650,000.

Buildings for which plans and specifications are being prepared in the office of James J. Baldwin, Asheville, N. C., include two courthouses and jails to be erected in Georgia and a courthouse, business building and school addition in North Carolina, at an aggregate cost of approximately \$650,000. A \$100,000 courthouse and jail will be erected at Butler, Ga., by the Long County Commissioners, F. C. Jarrell, chairman, the structure to be of reinforced concrete, brick and stone, while a \$150,000 courthouse and jail will be erected at Barnesville, Ga., by Lamar county, B. H. Hardy, ordinary, the jail building to be separate from the courthouse. Construction will be of reinforced concrete and brick, with stone trim, tile and composition roof and metal windows.

Macon county, J. R. Cabe, chairman of the Board of Commissioners, will erect a \$300,000 courthouse and jail at Franklin, N. C., of brick and reinforced concrete with limestone and marble trim. A \$50,000 business building will be erected by Dr. N. B. Adams at Murphy, N. C., of hollow tile and stucco with composition and tile roof, and a \$50,000 school addition at Old Fort, N. C., of ordinary construction, with face brick exterior and composition roof. The latter will be under the supervision of F. N. Stepp, superintendent of schools of McDowell county, Marion.

Plans for San Antonio Federal Reserve Building.

San Antonio, Tex.—Plans and specifications are expected to be completed within 30 or 40 days for the new building to be erected here for the Federal Reserve Bank, Dallas. The structure will be two stories and basement, 60 by 80 feet, of reinforced concrete with tar and gravel roof. Atlee B. and Robert M. Ayres are the architects and W. E. Simpson & Co. engineers, both of San Antonio.

Vigorous Opposition to Freight Rate Proposals of Southern Railroads.

Washington, October 3—[Special.]—The proposal of the Southern railroads to cancel all less-than-carload commodity rates, all exceptions to the Southern Classification having local application, and all any-quantity rates is meeting with much apprehension and considerable remonstrance from Southern shippers.

The utilities commissions of at least three states, Virginia, Alabama and Georgia, have filed with the Interstate Commerce Commission protests against the proposed cancellations, and shippers' organizations are doing the same.

A petition filed by the Interior Florida Traffic Bureau intimates that the railroads will use this cancellation and the investigation that is sure to follow such action as an excuse for further postponement of the filing of tariffs embodying the new class rates for the entire South which the I. C. C. has ordered. The petition declares that the cancellations can be made and investigated by the Commission without affecting the new basis of class rates.

The Commission is asked to order the roads to put the new rates into effect not later than 60 days after October 1, 1927, as it is declared that the roads have had ample time to prepare the tariffs and that the shippers have been waiting patiently long enough. The investigation of Southern Class Rates was begun more than five years ago and the Commission's decision was made in July, 1925. The third supplemental report was made last July, and the Commission expressed the belief that all important difficulties had now been adjusted and the expectation that the new class rates would be put into effect within a few months.

The new rates will give the entire South a uniform rate basis in place of the present chaotic condition of freight rate adjustments. The Florida peninsula, while taking an arbitrary distance scale over the scale applying in the rest of the territory, will receive a considerable reduction on all class rates, and the Interior Florida Traffic Bureau declares that it is entitled to the relief granted by the I. C. C. without further delay and without waiting for the decision in the inquiry into the proposed cancellation of less-than-carload commodity rates.

Sub-Contracts on \$600,000 Dallas Building.

Dallas, Texas.—The following sub-contracts have been awarded on the new \$600,000 building being erected here for the Dallas County Hall of Records, all contractors of Dallas:

Concrete and masonry—C. L. Shaw.

Lath and plaster—Williamson & Greer.

Miscellaneous and ornamental iron—Mosher Steel and Machinery Company.

Zenithern, rubber tile and Acousti—S. W. Nichols & Co.

Marble—Vermont Marble Company.

Terrazzo—Union Art Mosaic Tile Company.

As previously detailed, the building will be six stories and basement, about 72 by 200 feet, with 25 by 100 foot ells. Lang & Witchell are the architects and Crisman & Nesbit, general contractors. The William K. Grace Engineering Company has contract for electrical work and the Hamilton Company for plumbing and heating, all of Dallas.

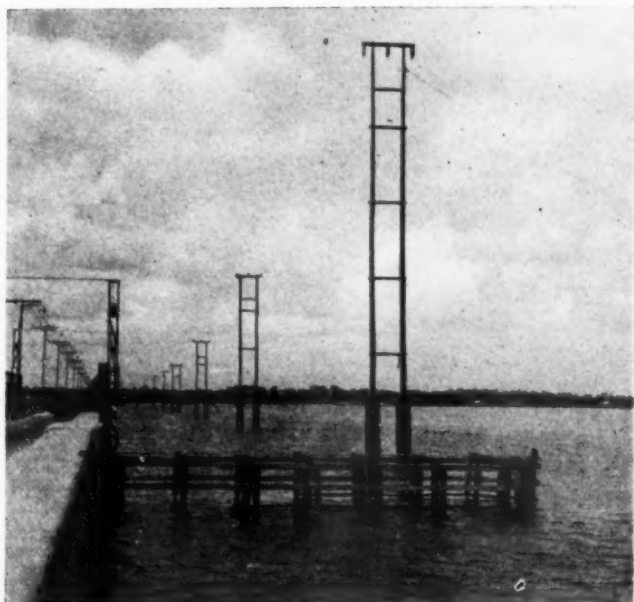
Contract for Car Barn and Garage.

The Carolina Power and Light Company, Raleigh, N. C., advises that it has awarded contract to the Palmer-Spivey Construction Company, Charlotte, for the construction of a combination car barn and garage at Asheville, N. C., to cost \$96,000. The structure will be 69 by 256 feet, two stories, of reinforced concrete, with brick walls.

Unusual Type of Pole Line Built by Florida Power and Light Company.

Many unusual features in pole-line construction are embodied in the recently completed 66,000-volt transmission line of the Florida Power and Light Company, Miami, from Bradenton to Punta Gorda and Fort Myers. The line is constructed of 50-foot poles with an average span spacing of 350 feet, using two $4\frac{1}{4}$ by $5\frac{1}{4}$ inch by 9 foot arms per pole, carrying a three phase 2/0 stranded copper circuit. The object of this design was to facilitate the addition of a possible future second circuit.

Poles used throughout were creosoted yellow pine, treated in accordance with Electric Bond and Share Company specifications for empty cell process, with a retention of eight



66,000-VOLT CROSSING AT PUNTA GORDA, FLA.

pounds of oil per cubic foot. The minimum specifications for size being 8 inches diameter at the top and 14 inches in diameter 6 feet from the butt.

The construction for two particular river crossings is unique. Following is a brief description of the method used in crossing Charlotte Harbor Bay at Punta Gorda and Caloosahatchee River at Fort Myers, these crossings being similar in design. Total distance across water on the Punta Gorda crossing is approximately one mile, that of Fort Myers crossing is about one and one-half miles:

The standard line spacing of 350 feet is carried across the water in both instances, with exception of the span opposite the highway drawbridge, in the case of the Punta Gorda crossing and the railroad drawbridge at the Fort Myers crossing, which are 300-foot spans. Single standard 50-foot pole construction supported by piles is used to a point about four spans from the draw crossing where the construction changes to a "H" frame design as the line begins the upward grade to its maximum height at the drawbridge span, where there are 110-foot "H" frames supported by pile clusters, giving a minimum mean low water clearance of 94 feet for the lowest conductor.

Each pole in the entire crossing, whether single pole or one side of an "H" structure, is supported inside a cluster of four piles. The butt of the pole comes at the mean low water level and the supporting piles extend 15 feet up the pole from the mean low water level. Filler blocks were inserted between the piles of each cluster and the entire assembly bound tightly together with $\frac{3}{4}$ -inch round banding. Piling

used was in 50-foot lengths driven to its required depth which left the above mentioned 15 feet above mean low water. As the average depth of water is approximately 8 feet, this gives a total penetration in sand, rock and muck of 25 feet. The piling and timbers used on these crossings consisted of the best grade creosoted yellow pine and was treated in accordance with the Electric Bond and Share Company specifications for full cell treatment with a retention of 12 pounds per cubic foot oil.

Guy anchorages on both crossings consist of batter piles driven at such an angle that the center line of the pile coincides with the line of strain of the guy, depending upon friction to hold the strain. Storm guys were placed at every fourth structure throughout.

The 110-foot poles, timbers and all piling used in these crossings were furnished by the Advance Lumber Company, Birmingham, Ala., while the standard 50, 60 and 80 foot poles were furnished by the Pensacola Creosoting Company, Pensacola, Fla. The hardware was furnished by the Bessemer Galvanizing Works, Birmingham; pin type and disc insulators were furnished by the Locke Insulator Corporation, Baltimore, and copper conductor by American Copper Products Company, New York.

The construction of this transmission line from Bradenton to Fort Myers constitutes only a portion of the big program carried on by Florida Power and Light Company during 1926 and the first part of 1927. As a result of this work Florida Power and Light now has in operation over 975 miles of high-voltage transmission lines interconnecting all of the electric properties of the company and the 110 communities served, with the exception of a few isolated ones. The interconnected system extends from St. Augustine, the northernmost point served by the company on the east coast, south to the Miami district tying in the properties at Palatka, Daytona Beach, Sanford, Titusville, Cocoa, Melbourne, Stuart, West Palm Beach, Palm Beach, Delray, Fort Lauderdale, Hollywood, Miami and Miami Beach, and all intervening points served by the company. In the southwestern section of the State the line extends from Bradenton, through Sarasota and Venice, to Punta Gorda and Fort Myers. A transmission line extending across the State from Punta Gorda, through Arcadia and Okeechobee, to Fort Pierce on the east coast completes the interconnection.

This interconnection has resulted in all the electric properties of the company, with the minor exceptions referred to, being operated as one system. The older and smaller electric generating stations are now used only to provide seasonal peak load capacity and for standby purposes. The company's base load plants are its new superpower generating stations located near Sanford and in Fort Lauderdale. The former has a present generating capacity of 10,000 kilowatts and was placed in operation last November, while the Lauderdale station has a present installation of 50,000 kilowatts, consisting of two 25,000-kilowatt units, one of which was placed in service last December and the other in January of this year.

Contract for \$500,000 Washington School.

Washington, D. C.—General contract has been awarded by the District Commissioners to the Charles H. Tompkins Company of this city for the erection of the proposed \$500,000 Garnett-Thompson junior high school building at Vermont avenue, 10th, U and V streets northwest. The contract price is \$372,240 and omits the erection of gymnasium and razing a portion of the old structure. There is a proviso that if the District can obtain the necessary additional appropriation, the remainder of the work will be done for \$158,720, making the total price \$530,960. A. L. Harris is the municipal architect.

New Fire Brick Unit at Mexico, Mo.

PLANT CAPACITY INCREASED TO 18 TO 20 CARS DAILY—HUGE OPEN-AIR FIRE-CLAY PIT OPERATED.

By J. HARRISON BROWN.

Many new and unusual features of construction and design are embodied in No. 3 unit of the A. P. Green Fire Brick Company at Mexico, Mo. Three individual fire-brick plants, with a combined output of 180,000 to 200,000 nine-inch equivalent or 18 to 20 cars daily, are now operated by the company. The new unit was placed in operation last year. The plant was designed by H. L. Pearson, engineer of the A. P. Green Company, working in connection with the Harrop tunnel kiln organization of Columbus, Ohio. The kiln, which is oil fired and which is 400 feet long, is known as a Harrop Continuous Car Tunnel Kiln. It holds 65 cars, each loaded with 1500 brick. One car is put into the kiln and another car, 65 car lengths ahead, is removed at regular intervals of 60 to 70 minutes, which gives a daily capacity of 30,000 to 36,000 nine-

the machine to the cars and this is the only place the clay or brick is touched by human hands from the time it is mined until the finished burned product is ready to be placed in cars for shipment. Approximately one-fourth of the time necessary in the old method of making brick is required to produce a finished brick in this new plant. It usually takes about 16 days to grind the clay, press the brick, set them,



HIGH-GRADE FIRE CLAY FED BY CONVEYOR BELT TO DRY PAN.

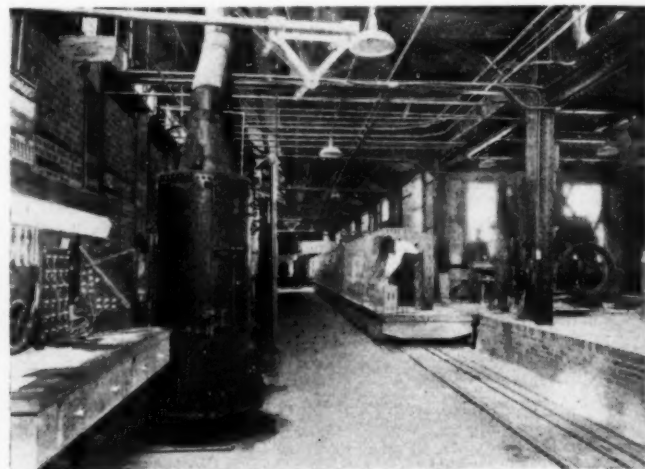
inch equivalent. The kiln and necessary machinery are housed in a steel, fireproof building.

Fire-clay is mined from an open air, daylight pit about 200 yards from the factory, said to be the largest open high-grade fire-clay pit in the world. There is enough clay in the property owned by the company to insure operation of the plants for an indefinite period. The clay is hauled by gasoline locomotives from the pit to the clay shed adjacent to the plant. The track is elevated and the cars are dumped to a floor, underneath of which is a belt conveyor that delivers the clay to a Clearfield dry pan, which can easily handle 120 tons of clay in eight hours, the approximate amount required for the plant for a run of 24 hours.

From the pan the clay is elevated to a Hummer screen through a steel-enclosed elevator. A small screw conveyor at the top of the screen distributes the clay evenly over its surface. A belt conveyor then takes the material to the store-room, delivering to Stephens-Adamson screw or helicoid conveyors, which, in turn, fill the steel storage bins, each bin having a capacity of 30 tons.

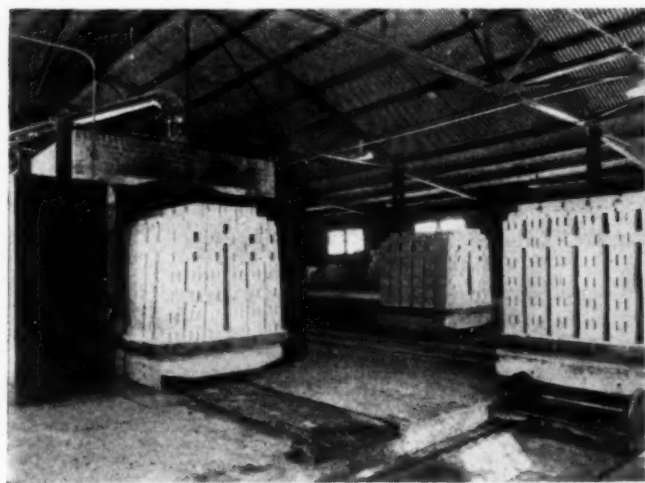
Up to the present time only dry-press brick are manufactured at this new unit. A Berg dry press and a Boyd dry press are used. All the machinery is electrically driven; General Electric motors, direct connected, are used exclusively. Remote central control of all equipment is an important feature.

At the dry presses, brick setters transfer the brick from



BRICK FROM DRY PRESS ARE SET ON CARS GOING DIRECTLY TO TUNNEL DRYER.

dry them, burn them and have them ready for loading where the down draft, periodic kilns are used. In this plant four days is required to complete the cycle. The brick are actually in the kiln from 65 to 75 hours. The success with which the plant is operated is indicated by the fact that an average of 98 to 99 per cent of the brick on each car are



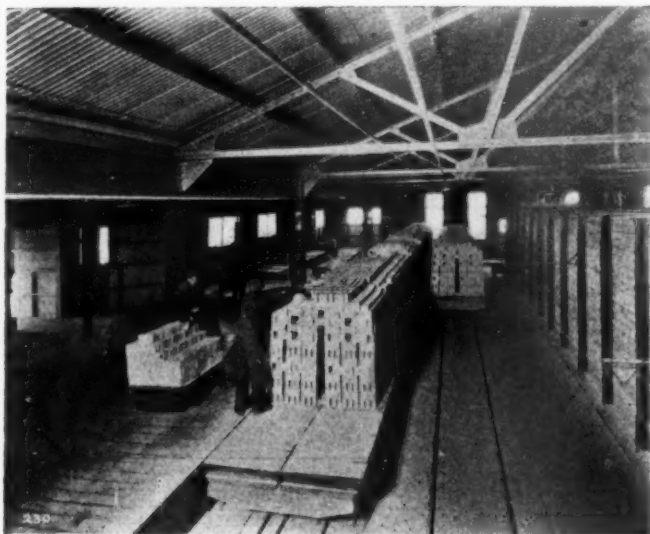
BRICK COMING FROM TUNNEL KILN READY TO SHIP.

considered as first quality ware, and frequently the only losses are those caused by unloading the cars.

It requires from 34 to 36 men to operate the plant, including the men operating the burning of the kiln and the second shift of the dry press and setting crew.

A. P. Green, the present owner, purchased the company in 1910. About twenty years ago Mr. Green was sales manager for the Harbison-Walker Refractories Company of Pittsburgh and later general sales manager of a Missouri fire-brick con-

cern. The company is one of the largest, if not the largest, exclusively owned—without consolidation of other plants—producer of high-grade fire-brick in the world. The products include: Super fire-brick, made from diaspore; high-grade fire-clay brick; special fire-clay tile; dry-milled fire-clay; plastic fire-brick; high-temperature fire-brick cement; fire-brick mortar, and through its associate and 100 per cent owned company the Liptak Fire Brick Arch Company, single



ELECTRIC TRUCK TAKING FIRE BRICK FROM KILN CARS DIRECT TO RAILROAD CARS.

and double suspension arches and air-cooled furnace wall construction. This latter company is really the same organization operating as an individual company with headquarters also at Mexico, Mo.

The company's products are shipped to practically every State in the Union and every country in the Western Hemisphere. The Liptak Company has offices in London, England, and in many of the important cities on the Continent. The Green Company has sales offices in New York, Chicago, Los Angeles and some 20 other important cities covering the entire United States, Mexico and Cuba. Visitors from all over the United States and from India, Sweden, Norway and England say that No. 3 plant represents the last word in high-grade fire-brick manufacturing.

Chattanooga's New Telephone Facilities to Cost \$2,250,000.

Plans have been made by the Southwestern Bell Telephone and Telegraph Company, Atlanta, for the construction and installation of new telephone facilities in Chattanooga, Tenn., to cost approximately \$2,250,000, according to a wire from the company announcing that it has awarded general contract to the Barge-Thompson Company of Atlanta, for the erection of two dial central office buildings, for which Marye, Alger & Vinour of Atlanta are architects. A structure at 10th and A streets in the downtown section will be three stories and basement, with provision for a three-story addition in the future. Its height will be about 100 feet above the sidewalk to provide 76,000 square feet of floor space when completed, of concrete and structural steel, dark rough brick with limestone trim, to cost about \$300,000.

A building in the residential area at Duncan and Dodd streets will be one story and basement, with provision for a two-story addition, to provide a total of 22,000 square feet of floor space. It will be of concrete construction with bar reinforcements, the exterior to be of dark rough brick and limestone trim, to cost about \$85,000. The first named structure

will have dial equipment for district offices and toll central office facilities, while the Dodds street building will house dial equipment only. The cost of new central office equipment is estimated at \$1,230,000, and that of new line plant, including cables, conduits, subscribers' dial telephones and miscellaneous equipment, is estimated to exceed \$600,000.

Canada's Freight Rate Reduction and the Great Lakes-St. Lawrence Waterway Project.

Washington, October 3—[Special.]—The report that one wing of the Liberal party, now in power in Canada, had succeeded in blocking any action by the Dominion Government in co-operating with the United States in making plans for the construction of the Great Lakes-St. Lawrence waterway is not taken too seriously by American backers of the project.

It is admitted that there is much opposition to the deeper waterway in Canada and that much of this is centered in the Liberal party, but it is not thought that this will prevent the Dominion from officially joining with this country to promote the project. This belief was recently presented to President Coolidge by William T. Harding, president of the Great Lakes-St. Lawrence Tidewater Association.

The Liberal Government, Harding, said, is not opposing the St. Lawrence waterway, in spite of reports to the contrary. He explains Canada's delay in taking definite steps toward cooperation with this country by the fact that the engineer's appendices to their report of last year and the voluminous economic survey of the proposed waterway being made by Canada will not be ready until winter.

Premier MacKenzie King himself will head a commission to promote the St. Lawrence waterway and to educate public opinion in Canada concerning its value to the Dominion as a whole, Harding believes.

The Liberal Government, Harding said, is not opposing the and most of the opposition to the St. Lawrence waterway comes from this province on the ground that it would be detrimental to the province's two great ports, Quebec and Montreal. The largest business these ports do is the transshipment of grain from the prairie provinces which moves to the head of the Great Lakes by rail, is taken as far east as possible by Lake boats, transferred to rail again and brought to tidewater at these ports for export to Europe. It is this same grain movement which would form the bulk of the travel through the St. Lawrence waterway if ocean ships were able to reach the Great Lakes.

Therefore, a political purpose was attributed to the recent action of the Canadian National Railways in announcing a large cut in the freight rate on grain to Montreal and Quebec. The rail system is operated by the Government, the Liberal party is now in power, Quebec is the stronghold of the party and Quebec opposes the St. Lawrence project, reason those who assert that this freight reduction is to quiet the grain growing sections who complain of the cost of getting their product to market. It is also true that last year showed the first profit made by the Canadian National for some time and that this large grain reduction will about wipe this out if not actually incur a deficit to be met from taxes.

The reason given for the reduction is that much Canadian grain is entering the United States at Buffalo—under bond to avoid paying duty—and is hauled to the seaboard by American railroads, handled at American ports, and carried to Europe in American bottoms. It is also believed by many that this reduction is to last for three years only, as three years will see the completion of the railroad to Hudson Bay and the opening of the port of Churchill at its terminal. This will give an ocean haul to Liverpool only 100 miles longer than from Montreal and the rail haul from the wheat raising regions will be much less. While Hudson Bay is open to

navigation only four months in the year, this season comes at the height of the grain marketing, and the Hudson Bay route is designed to take the bulk of the wheat exports.

With the grain growers quieted by the present freight reduction and the coming Hudson Bay outlet, there will be little demand in Canada for the St. Lawrence waterway, and the interests of Montreal and Quebec will be secure, say those who believe that the Liberal party is trying to kill the attempt to let ocean vessels into the Great Lakes.

Contract for 66-Mile Gas Line Louisiana to Arkansas.

Bastrop, La., September 24—[Special.]—The Gas and By-Products Company, a subsidiary of the Electric Power and Light Corporation, New York, announces that it has awarded to Ford, Bacon & Davis of New York contract for the construction of 66 miles of natural gas pipe line from a point near Halle, in the northwest part of the Monroe gas field, to El Dorado and Camden, Ark., and that construction has already begun. The pipe line will follow as closely as physical conditions will permit the electric transmission line of the Louisiana Power Company, which extends from Sterlington to the mill of the Southern International Paper Company at Camden.

A right of way, for the most part, has already been purchased and clearing is in progress at the south end of the line near El Dorado and south of Camden. The first shipments of pipe and couplings are in transit and the contractors are putting pipe-laying forces on the work with the expectation of completing construction about December 1. A field construction office has been opened at El Dorado with A. J. Evans in charge. The gas supply for this line will be furnished by the Natural Gas Producing Company of Louisiana, a subsidiary of the Gas and By-Products Company.

Consolidated Church Plans \$400,000 Building.

Legal details for the consolidation of Grace Methodist Episcopal Church at Carrollton avenue and Lanvale street, and the Roland Park Methodist Episcopal Church, at Roland avenue and Oakdale road, Baltimore, have been completed and formal organization of the two congregations is expected soon. The consolidation will involve the erection of a new building adjoining the site of the present Roland Park church estimated to cost \$400,000. Pending construction, both congregations will worship in the Roland Park church. A building committee for the new structure is expected to be appointed soon and this committee, in turn, will select an architect. Dr. Chesteen Smith, pastor of Grace Church, and Dr. B. W. Meeks, pastor of the Roland Park church, with others, represented their respective churches on a committee which effected the consolidation.

Sub-contracts on St. Louis \$4,000,000 Courthouse.

The Selden-Breck Construction Company of St. Louis, Mo., general contractor for the erection of the new \$4,000,000 civil courts building in that city, advises that plumbing contract has been awarded to the C. O. Smith Plumbing Company; electric wiring contract to E. A. Koeneman Electric Company, and heating and ventilating contract to the Peters-Eichler Heating Company, all of St. Louis. Plans and specifications for the building were prepared by the Plaza Commission, Inc., St. Louis.

An election has been called for October 19 by the commissioners of Brunswick, Ga., on a bond issue of \$175,000 for street paving, sewerage extension and the erection of an annex to the city hospital.

Brown Paper Company Completes Big Expansion Program at Monroe.

Monroe, La., October 3.—The Brown Paper Mill Company, Inc., has completed its expansion program and started the new 176-inch Pusey & Jones machine. This is of the modern high-speed type, with General Electric sectional machine drive, removable fourdrinier, suction couch and first press, with complete vacuum pump equipment by Nash, 46-60-inch paper dryers, 6-48-inch felt dryers, copper jacketed receiver or baby dryer, double stack of Farrell calenders, Langston slitter and winder, Fulton drying system and complete Ross system of heating and ventilation.

In addition to the paper machine, the new equipment consists of a 7500 kva. General Electric turbo-generator unit with accessories, three Wagner recovery units, three 1350 cubic feet Kellogg tumbling digesters with battery of diffusers, three Bird centrifugal pulp screens, six Mount lime mud filters, Trimbey metering system, six No. 3 Shartle jordans, a Shartle beater for shredding and pulping laps, two triple effect Zarembo evaporators and a complete system of overhead electric trolleys for handling the reels and heavy rolls from the new machine.

The new buildings and additions were erected by the Morton C. Tuttle Company of Boston. The piping is by the Grinnell Company, Providence, R. I. The pumps, with their direct-connected motors, were furnished by the Fairbanks-Morse Company, Chicago, Ill. The additions were planned by George F. Hardy, as was the original unit.

In connection with the Wagner recovery units are three 500-horsepower Wickes vertical tube waste heat boilers with superheaters. All the tank work, as well as a new bark burner, was built and erected by Walsh & Weidener of Chattanooga.

The mill is a completely self-contained unit, owning and operating its own forests, which are said to be so extensive that the annual growth is greater than the annual cutting. The forests are connected with the mill by the mill's own railroad and the wood handled by their own equipment of locomotives and other rolling stock.

The water supply is from artesian wells on the mill property.

Site for \$100,000 Canning and Packing Plant.

[Telegram to Manufacturers Record.]

Mission, Texas, September 27.

We confirm the purchase of one of the best industrial sites in San Benito, Texas, for the purpose of erecting a modern packing house and likely connecting with it a canning factory. Our secretary, T. M. Melden, and our director, W. E. McDavitt, of Brownsville, Texas, are now in Florida investigating factory plants with instructions to purchase machinery if, in their judgment, they think we can yet install a canning plant in time for this season. It now looks very doubtful and our building plans will likely have to be postponed until next year. The cost of our San Benito plants has not been determined, but we expect it will be around \$100,000.

TEXAS CITRUS FRUIT GROWERS EXCHANGE.

JOHN H. SHARY, President.

Correction.

In the MANUFACTURERS RECORD of September 15 in an advertisement of the Concrete Steel Company, 42 Broadway, New York, the dam at San Antonio, Texas, should have been referred to as "Olmos" Dam and not "Amos" Dam. Also the name of the engineer instead of "S. T. Crecellen" should have read "S. F. Crecelius."

THE IRON AND STEEL SITUATION

Pittsburgh Steel Market.

Pittsburgh, October 3—[Special.]—Heavier demand for steel is reported in some connections, including a good movement of wire fence and fencing materials in the South, and heavier buying by agricultural implement works. Incidentally, the annual rail buying movement is at hand, and predictions are that half a million tons or so of rails will have been placed within another fortnight, including 200,000 tons by the Pennsylvania Railroad.

The total volume of steel buying last week may have been slightly above that of the previous week, but in general the volume does not seem to be altogether as heavy as the average in July and August, which are usually expected to be relatively light months.

Steel mill operations are at a steady rate, between 60 and 65 per cent of full capacity, against a 69 per cent average in July and August. Production is likely to proceed for some time at approximately the recent rate, with probably the familiar slowing down late in the year. Considering all circumstances, the total steel output for the year seems likely to run 8 to 10 per cent under that of last year, which was a record year. At the beginning of this year some such decrease was expected, but after a few months there appeared to be chances that a decrease might be avoided. As it is, there are three big tonnage years in a row, and, indeed, five years except for 1924 having been somewhat off.

Fabricated structural steel lettings reported in the week totaled 24,000 tons, making a rather light week, but the total of lettings January 1 to date is somewhat ahead of that in the same period last year.

Freight car inquiry has been negligible for a long time, but an inquiry has now come out, the Pere Marquette asking prices on 500 to 1000 box cars.

The automobile industry continues its slow seasonal decline in activity. Its production is now running about 30 per cent under that at this time last year. Demand for oil country tubular goods has been light all this year, and the season is now practically ended. The Denver City Council has passed the ordinance necessary for the entrance of natural gas, and the big natural gas line from the Amarillo field, Texas, is brought correspondingly nearer the stage of actual execution. The main line would require 378 miles of 22-inch pipe, with various other lots for feeders and branches, making altogether something like 100,000 tons, which would be the heaviest pipe line ever laid.

Steel prices are showing little specific change. In several lines prices are more or less in a state of flux. Thus in wire products mills made contracts three months ago at certain prices and then advanced. They have held the advanced prices strictly, but the old contracts do not seem to be running out. In strips there have been irregularities, and some mills have under consideration a scheme to give large buyers certain discounts, according to respective tonnages taken in the past year, while some mills do not think such a plan would work. In bars, shapes and plates Pittsburgh mills recently put out prices of 1.75c on large lots and 1.85c on small lots, when the market previously had been 1.80c. There are claims and counterclaims as to whether the 1.85c price has been established on small lots.

Heavy melting steel scrap delivered Pittsburgh district has slipped off 50 cents a ton, being now quotable at \$14.50 to \$15, and this is considered an unfavorable development. Pig-iron is dull all around. Valley prices are not quotably changed but there is some doubt about their firmness in case of interesting inquiry developing.

The coal markets of Western Pennsylvania and West Vir-

ginia have failed to improve since the Illinois disagreement of nearly three weeks ago. Coal is remarkably easy and would be considered so even if a union strike, now ended, had not been in progress for six months.

Birmingham Iron Market.

Birmingham, Ala., October 3—[Special.]—Although there has been no change in the policy of buying on the part of the melters, furnace interests in Alabama hold a firm front and confidence is expressed. The aggregate sales total up to a little less than the make. While one blast furnace less is reported in operation, the make of pig-iron is holding steady for the reason that the new No. 2 furnace of the Sloss-Sheffield Steel and Iron Company has increased its output and is now producing more than 400 tons daily. The surplus stock is a little greater than it has been on the turn of any month this year. Eleven blast furnaces are on foundry iron, six on basic and two others are on ferro-manganese or special brand iron.

Sales made for delivery during the last quarter of the year do not aggregate extensively. The policy of buying for from two to four weeks ahead is being maintained. A slight improvement has been reported during the past three weeks in cast-iron pressure pipe manufacture and shipment is active. Quotations are reported still lower. While \$29 to \$30 is given as the base on pipe, six-inch and over sizes, sales have been heard of at more than \$2 under the base. Stock-taking on the turn of the month showed a reduced tonnage of iron on shop yards. There is no fear that iron cannot be delivered just when it is needed. Iron melters in the home territory feel confident that no matter how small or how large the order the tonnage will reach them within 24 hours. Furnace interests are in position to give service also. Numerous orders for from one to four and six cars of iron are being received. Predictions as to an early revival of trade is not made, inquiries are replied to with the information that small-lot sales are predominating, the larger consumers of iron buying in the same manner as the smaller melters. The market is uncertain except as to quotation base, \$17.25 per ton, No. 2 foundry being maintained for a long time.

The steel market recently noted some orders, but there has been but few additions. Rail tonnage to be delivered during the remainder of this year and through the first quarter of 1928 is fairly good. The bulk of the 1928 requirements will be announced during November and by that time a goodly portion of the business placed. The shops in this district capable of producing railroad accessories, tie plates, etc., look forward to an activity for months to come.

Tennessee Coal, Iron and Railroad Company will in the next few days bring to Birmingham upwards of 5000 tons of manganese ore from the Far East, imported through the port of Mobile and handled by railroad from Mobile. The Tennessee Company since September 1 has brought in several thousand tons of Missabe range, Minnesota ore, via Chicago, on the Great Lakes, and thence by rail. The local ore production shows but little change. The importation of Brazil manganese ore has been under way for more than a year also. The various ores being brought to the district may be of significance. While no authoritative statement is made, it is to be heard that work in research is well in hand and that laboratory investigations are being started.

Steel plants of the Tennessee Coal, Iron and Railroad Company, American Steel and Wire Company and the Gulf States Steel Company continue the schedule of the past few weeks. Open hearth furnace operation of the district is about

50 per cent, while mill and shop operation is 65 to 70 per cent. Fabricating shops are looking forward to further contracts, business recently received to be fabricated during the last three months of the year.

Coal production in Alabama is again reaching normal. Coal is moving steadily out of the territory. Recent cooler weather brought about some activity in the domestic market but not to the limit.

The coke market continues steady with bright prospects for further improvement. Independence coke producers are not accumulating any great amount of coke, if any at all; in fact, the yards are fairly clean. Iron and steel companies are also selling some coke on the open market. The quotation base has been maintained well during the summer and at present is very firm, \$5.50 per ton for foundry coke with 50 cents additional on spot order.

The old material market is unchanged. Prices are low. Heavy melting steel, No. 1 cast and stove plate, have been the principal scraps in the recent past with a scarcity more or less of cast and stove plate. All demands have been met promptly where contracts have been made.

Quotations for pig-iron and iron and steel scrap follow:

PIG-IRON.

No. 2 foundry, 1.75 to 2.25 per cent silicon, f. o. b. furnaces, \$17.25; No. 1 foundry, 2.25 to 2.75 per cent silicon, \$17.75; iron of 2.75 to 3.25 per cent silicon, \$18.25; iron of 3.25 to 3.75 per cent silicon, \$18.75; charcoal iron, f. o. b. furnace, \$29.00.

OLD MATERIAL.

Old steel axles	\$16.00 to	\$17.00
Old iron axles	16.00 to	17.00
Old steel rails	12.50 to	13.00
Heavy melting steel	10.50 to	11.00
No. 1 cast	14.00 to	15.00
Stove plate	13.00 to	14.00
No. 1 railroad wrought	11.00 to	12.00
Old car wheels	12.00 to	13.00
Old tramcar wheels	12.50 to	13.50
Machine-shop turnings	8.50 to	9.00
Cast-iron borings	8.50 to	9.00
Cast-iron borings (chem.)	13.00 to	13.50

The Metal Market.

New York, October 3—[Special.]—The metals were weak in the same degree that they were the preceding period. In fact, the story of the markets is much the same in that tin went to new low levels on especially active trading, while the other metals slowly sagged on indifferent trading.

Sentiment is perhaps a trifle better than a week ago. In the first place a turn for the better appears to be taking place in the steel industry where operations have increased, September sales have been larger than those for August and prices have become firmer.

The metal prices are still hovering too close to the low levels of the year to please the producers, particularly for October, a month during which the metals are normally booming. Lead is only \$1 per ton above the low for the year; tin sold once at 58¾ cents which is the lowest since June of 1926 when the price of 58 cents was reached; zinc is only \$2.50 per ton above the low point of the year; copper is ½ cent per pound above its low point.

The precious metals have yielded somewhat to the weakness in the baser metals. Pure platinum has sold at \$68 per ounce, a recession of \$2 per ounce. Quicksilver was reduced 2s 6d at London to £21 15s after having held firm for many weeks. Silver has held well to high levels recently made, or slightly under 66 cents per ounce.

Copper was moderately active at the start of the week but gradually receded in volume of sales. Prices suffered likewise. At the start all sellers were holding firm to 13¼ cents per pound, delivered to the Connecticut Valley. Then a few custom smelters began offering the red metal at 13.20 cents. Later one of the prominent custom smelters who has been the weak seller on many occasions during the past few

months began to book business at 13½ cents, but even at that figure found demand very light. By Thursday it was possible to buy copper at 13 cents and hence the net change for the week was a decline of ¼ cent per pound. The price for export was kept the same at 13½ cents per pound c. i. f. European ports, but because of the sagging in the domestic market the foreign price is ¼ cent above the American parity which may again lead to bitter feeling on the part of European dealers and consumers. The London copper market was in a restless state, up one day and down the next on narrow margins, until Thursday when a break by 10 shillings took place in electrolytic copper.

Less optimistic reports come from the lake district. For eight months shipments from the lake smelters have been heavy and have taken care of production completely. Now, however, a pronounced slump has taken place and surpluses are accumulating at smelting plants and on docks. Even the Middle Western consumers have fallen down in their consumption of the red metal. Shipments by rail from the Calumet and Hecla plants are at 75,000 tons daily, a contraction of 33⅓ per cent. Producers are heartened, however, by the fact that so little copper has been bought for October delivery. Probably only one-third of the requirements for the month are under contract. November needs are neglected entirely and purchasing for December is unheard of. Two years ago consumers were buying three months ahead. Consumers are buying so extremely hand-to-mouth that the metal is often shipped hot out of the refineries. Should there be a break down in railroad transportation, caused by a strike or severe winter weather the plight of consumers would be sorry indeed.

Tin sales in this country were again 20,000 tons for the week or 40,000 tons in a fortnight. On several days 500 tons were sold. When prompt tin sold as low as 58¾ cents the price steadied and better sentiment was prevalent towards the close of the week. The price of tin is now 10 cents per pound under that of a year ago. It is felt therefore that all unfavorable news has been thoroughly discounted by now. Tin speculators have lost thousands of dollars in the rapid breaking of the market. It has been the most severe decline since the collapse of the boom of false prosperity a few years after the war. At the time some tin speculators were ruined.

By all the past rules of the tin market prices should start going higher, but traders are nervous and it will take several days of stability to reassure them. The premium on spot tin is only one-eighth of a cent per pound as against four cents per pound which prevailed early this year. Tin consumption will improve after the annual automobile shows. The getting into mass production by the Ford Motor Company will be a boon to the tin industry as this metal is used widely in making bearings and in other parts of the automobile.

Lead was fairly firm and active at the start of the week but followed the course of the other metals. The East St. Louis price sagged from 6.07½ cents to 6 cents per pound and the market would have gone lower but for stiffer resistance put up by sellers who hated to see the morale of the industry hurt by the price getting under six cents. The American Smelting and Refining Company kept its quotation of 6¼ cents per pound, New York, intact all week, though continual declines in the price at London endangered that quotation.

Zinc was selling sparingly at 6½ cents at the end of the week as against 6.25 cents which prevailed so long during late August and the first half of September. Weakness in zinc has been brought about by lower ore prices, gains in surplus stocks and depression in the steel industry. Surplus stocks increased 1500 tons during the first half of this month. Ore sales have been repeatedly less than current production. The price of ore has been reduced another \$1.00 per ton to \$40.00 in the tri-State district.

RAILROADS

Freight Loading Keeps Above 1,000,000 Cars a Week.

Loading of revenue freight on the railroads during the week ended September 17 totaled 1,124,231 cars, an increase of 134,759 cars over the preceding week when freight traffic was reduced owing to the observance of Labor Day. The total for the week of September 17, according to reports filed by the railroads with the Car Service Division of the American Railway Association, was a decrease, however, of 55,028 cars compared with the corresponding week last year but an increase of 25,604 cars above the corresponding week in 1925. Since January 1 last there have been 37,742,254 cars loaded with revenue freight, as compared with 37,958,733 cars loaded in the same period of last year and with 36,771,919 cars loaded in the corresponding period of 1925.

Valuable Texas Connection Soon Complete.

Floydada, Texas, September 29—[Special.]—Construction of the extension of the Quanah, Acme and Pacific Railroad from McBain to Floydada, Texas, 30 miles, will be completed and placed in operation about January 15, according to Charles H. Sommer of St. Louis, president of the company. The extension will cost approximately \$1,000,000. The line will intersect here with the branch of the Atchison, Topeka and Santa Fe Railway, which runs to Plainview. The Quanah, Acme and Pacific is a subsidiary of the St. Louis and San Francisco with which it intersects at Quanah, Texas.

The closing of the gap between McBain and Floydada will bring about a saving of 75 miles in rail distance between Floydada and other towns of the South Plains and Fort Worth.

Mr. Sommer said that the Frisco still has under consideration the project of extending its system southwest from Floydada across the plains of Texas and New Mexico to El Paso. Such a line, he said, would mean a rail saving of 250 miles between El Paso and St. Louis. Large bonuses of land and money in aid of the proposed road have been assured by the towns and territory through which it would pass.

Little Creek Terminal Track Contract Let.

According to a report from Norfolk, good progress has been made on the construction of the Little Creek terminals of the Pennsylvania Railroad on Hampton Roads, the construction of the artificial harbor and the jetties being well advanced toward completion and the company has now let contracts for grading and track laying in the terminal yards, as well as for the connection with the line into the city of Norfolk. It is announced that there will be about 35 miles of track to be built by the Tunstall-Johnson Company of Norfolk. The cost of the entire terminal work under the present program will be about \$3,000,000. When it is completed the ferry trip between Cape Charles and Norfolk will be reduced from 36 miles to 24 miles.

The contract just awarded to the Tunstall-Johnson Company covers grading, ballasting and track laying on 35 miles of yard tracks and the connection into Norfolk, which will be divided about as follows: Yard tracks, 28 miles; side tracks at St. Julien's Ave., 1 mile; connecting track into Norfolk, ending at St. Julien's Ave. near Calvary Cemetery, off Princess Anne Ave.

Work is to begin within 30 days, maybe by October 15.

Crowds at the "Fair of the Iron Horse" Far Exceed All Expectations.

The tremendous success attending the opening of the "Fair of the Iron Horse" at Halethorpe, Md., in the suburbs of Baltimore, is shown by the statement of the Baltimore & Ohio Railroad Co. that the aggregate number of visitors during the first seven days of its exposition was over 350,000. There will be fourteen more days of the show and it is estimated that the grand total of visitors will be over 1,000,000 by the end of the event. On the opening day, September 24, the attendance was nearly 40,000 people and after that it was 50,000 or more daily. On Tuesday of last week 65,000 persons attended. That was on Pennsylvania Day and on Thursday, Virginia Day, there was another record attendance. On Wednesday 57,600 people attended, including 4500 employees of the Baldwin Locomotive Works of Philadelphia, President S. M. Vauclain heading the party, with several other officials. There were also a number of representatives of the Reading Railroad System, headed by President A. T. Dice. Other prominent men also from Philadelphia included Cyrus H. K. Curtis, head of the Curtis Publishing Co. and president of the Philadelphia Ledger organization, and J. C. Martin, vice-president; S. M. Curwen, president of the J. G. Brill Company, etc.; President R. E. M. Cowie and Vice-President C. W. Roble, of the American Railway Express Co., and many others of the same. On other days leading officers of many railroads and other enterprises of prominence also attended the great show, the aggregate of visitors exceeding even the most optimistic expectations.

In the October number of the Baltimore & Ohio Magazine appears the concluding article about the Fair of the Iron Horse, by Edward Hungerford, the Centenary Director in charge of the exposition and pageant. It is full of historical interest and contains pictures of the fourteen presidents of the railroad from Philip Evan Thomas to Daniel Willard.

Freight Stealing Decreases Nearly 12 Per Cent.

Losses due to robbery of freight on the railroads of this country were the smallest for the first six months in 1927 of any corresponding period on record, according to reports just compiled by the Protective Section of the American Railway Association.

Robbery losses in the first half of this year amounted to \$638,041, a decrease of \$84,464, or 11.6 per cent compared with the corresponding period in 1926. This also was a decrease of \$5,725,432, or nearly 90 per cent below the first half of 1920, when such losses were the greatest in the history of the railroads.

This reduction in losses due to robbery of freight took place in face of the fact that the railroads in the first half of 1927 carried the greatest volume of freight for any corresponding period on record.

A Fine, High Record of Car Movement.

The G. M. & N. News, an interesting periodical published by the Gulf, Mobile and Northern Railroad Company, says in its issue of September 10 that the railroad maintained its high miles per car per day average during August and had a showing at the end of the month of 51.9 all cars, and 53.9 less bad orders. According to figures tabulated by the office of the Superintendent of Transportation, this is a considerable increase over the mark of August, 1926, when the average miles per car per day was 44.9 and 47.5. This is also an improvement over July, the preceding month, but still falls slightly short of May, 1927, in which the all-time record was established.

Baltimore and Ohio Meeting and Statement.

The board of directors of the Baltimore and Ohio Railroad Company, on account of the Centenary Celebration of the corporation being in progress at Halethorpe, Md., held their regular monthly meeting at the general offices in Baltimore instead of in New York on September 28, and afterwards went to the exhibition grounds to view the pageant. The directorate is composed of President Daniel Willard; Newton D. Baker of Cleveland; Delos W. Cooke, John R. Morron, Henry Ruhlender, John F. Stevens and Paul M. Warburg, all of New York; John J. Cornwell, Robert Garrett and George M. Shriver, all of Baltimore; Frederick H. Rawson of Chicago, and Joseph E. Widener of Philadelphia.

A statement of the company shows that its railway operating revenues during the first eight months of 1927 totaled \$165,818,399; increase, \$458,405, as compared with the corresponding period of last year; operating expenses, \$124,343,477; increase, \$957,359; net revenue from railway operations, \$41,474,922; decrease, \$498,954; net railway operating income, \$31,419,156; decrease, \$756,445. It is important to note that there was an increase of railway tax accruals amounting to a total of \$767,694.

Chesapeake and Ohio Earnings Show Large Increase.

For the eight months ended August 31, 1927, the Chesapeake and Ohio Railway Company has reported gross revenues of \$90,310,155, an increase of \$4,361,250; operating expenses were \$60,842,045, an increase of \$921,976; net railway operating income was \$24,910,691, an increase of \$1,974,263; net income after all charges \$19,677,335, an increase of \$2,153,167, all comparisons being with the corresponding period of 1926. The operating ratio for the period is 67.4 per cent, a decrease of 2.3 per cent over the same period a year ago.

For the month of August gross revenues were \$12,334,826, an increase of \$460,455 over August of last year; operating expenses were \$7,678,840, a decrease of \$4171; net railway operating income was \$3,946,525, an increase of \$356,771; net income after all charges for the month was \$3,324,737, an increase of \$448,253.

Norfolk and Western to Build 250 Cars.

The Norfolk and Western Railway Company will build 250 more all-steel automobile box cars in its own shops at Roanoke, Va., according to announcement. The company's motive power and rolling stock are in excellent condition and this makes it possible to use its own mechanical employees for this car building and thus provide them continuous employment at a time when otherwise a reduction in forces could be made without harm to railroad service. Materials for the new cars will be ordered immediately and actual work on their construction should begin in about two months. About six cars will be completed each day. In November last a similar decision was made by the company to build 250 all-steel automobile box cars in its shops and they were completed in June last.

West Virginia Midland Would Issue \$275,000 of Stock for Construction.

The West Virginia Midland Railway Company has applied to the Interstate Commerce Commission for authority to issue \$275,000 par value of capital stock to complete construction from Webster Springs to Bergoo, W. Va., about 11¼ miles. H. B. Curtin of Clarksburg, W. Va., is president.

Mobile and Ohio Bond Issue for \$13,879,000.

The Mobile and Ohio Railroad Company has asked the Interstate Commerce Commission for authority to issue and sell refunding and improvement mortgage bonds to the amount of \$13,879,000, bearing 4½ per cent interest.

Railway Surgeons' Convention at Virginia Beach.

More than 220 of the leading surgeons and physicians of Virginia, West Virginia, Ohio, North Carolina and Maryland, together with members of their families, met at the Cavalier Hotel, Virginia Beach, Va., on September 28 and 29 in the annual convention of the Association of Surgeons of the Norfolk and Western Railway Company. The company annually plays host to this group in order to facilitate a helpful exchange of doctors' experiences and to aid in the development of high efficiency its medical staff. The business session was opened with an invocation by Bishop Beverly D. Tucker of Norfolk and the address of welcome was made by Dr. Powhatan S. Schenck, director of public welfare of that city. The response was by Col. W. S. Battle, Jr., vice-president in charge of valuation, real estate and public relations, Norfolk and Western Railway, Roanoke, and this was followed by addresses by Dr. Southgate Leigh of Norfolk and Dr. H. R. Drewry, Norfolk, president of the association. Many others also spoke. Members of the surgeons' families were entertained during the two days of the convention by the many attractions of Virginia Beach, including golf, bathing, sightseeing, etc.

A Fine Book on the Seaboard Air Line and Florida.

"Through the Heart of the South to Florida" is the title of a large and handsome illustrated book of 44 pages which has been privately printed for Dillon, Read & Co., bankers, New York, and which presents the story of the Seaboard Air Line Railway and its service to and from Florida in a most interesting and attractive style. The pictures show the fine and substantial roadbed and equipment of the Seaboard and the reading matter gives full particulars concerning them and the work to which they contribute. Other illustrations reveal impressively the progress made by Florida in the last 20 years not only in the large and commodious buildings erected in the cities, but in the great development of agriculture throughout the rural regions, the natural beauty of which is incidentally brought out in the photographs. Industrial and other progress in this and adjacent States are also shown throughout the book, which is a most striking presentation of the Seaboard Air Line Railway and the territory that it serves. In the course of the narrative are included quotations from the MANUFACTURERS RECORD relative to Southern enterprise and advancement.

Puts New Gin in Operation.

Jacksonville, Ala.—A new and modern cotton gin has been put in operation here by the Profile Cotton Mill, of which W. I. Greenleaf is president. With facilities for two bales at once, it is capable of handling 18 bales an hour and has cleaning equipment to improve the grade of soiled cotton. A Hancock cleaner is being installed for handling low grades, unopened bolls and damaged cotton.

W. G. Templeton has been appointed general manager of the Nashville, Chattanooga, & St. Louis Railway to succeed the late W. P. Bruce. Previously he was superintendent of the Nashville division of that line, with which he has been connected for 35 years.

GOOD ROADS AND STREETS

Appalling Loss of Life and Property in Highway Accidents—National Movement Launched for Greater Safety.

Nearly one-sixth of the nation's entire population has directly or indirectly suffered from highway accidents during the past five years, says Charles M. Upham, director of the American Road Builders' Association, in an appeal by that organization for the practice of courtesy and caution on the public thoroughfares. "Every 41 seconds," Mr. Upham says, "someone is either killed or injured in highway accidents in the United States." During the past five years 3,446,370 persons were reported injured and 114,879 killed in traffic calamities. The annual casualty toll of highway accidents is more than twice as great as the entire number suffered by the nation's forces in the World War. It is believed that these accidents result in an economic loss exceeding \$3,000,000,000.

In urging drivers to use courtesy and caution, the Association presents statistics to show that unreasonable speeding is not only dangerous, but completely fails in its original purpose—to get a motorist where he is going in less time. "A driver who exceeds a reasonable limit by 10 miles per hour will save but a minute while driving an entire mile. If it were necessary for him to drive three miles through city traffic, he would save but three minutes, and if he has to slow up for turns or because of traffic congestion we will lose all or more time than he gained by his excessive speed. This small saving in time does not justify the hazard created by excessive speed."

Many churches, civic clubs, schools, educational institutions, governors, mayors, traffic departments and industrial organizations in all parts of the United States are joining forces with the American Road Builders' Association in a national movement to combat highway accidents. The Rotary, Kiwanis, Optimist and Lions clubs throughout the nation are to assist by holding highway safety programs at their regular meeting periods. Approximately 15,000 of the country's largest schools are devoting time to the study of courtesy and caution and all children will be asked to become members of a Highway Safety Club organized by the Road Builders' Association.

The Association has uncovered many facts regarding the causes and results of highway accidents. Chief among the conclusions that have been drawn from statistics collected from various rural districts and municipalities are the following:

"1. That the largest number of accidents occur between five and six in the afternoon when business men and workers are returning hurriedly to their homes. At this period of the day congestion on the street and highway is at its height. Drivers and pedestrians who are wearied from a day of labor are not as mentally alert as during the earlier hours of the day. Confusion and carelessness result, and from them—accidents.

"2. That the accidents involving pedestrians are increasing at a rate much greater than the rate of increase of other types of accidents. The pedestrian evil seems to indicate that the American motorist is becoming adept in the art of dodging other vehicles, but is unable to cope with the problem of the pedal traffic on the city streets.

"3. Less than 5 per cent of all accidents are the result of faulty mechanism of vehicles or improperly designed roads and streets. The human machine is responsible for the remaining 95 per cent of the accident total. Carelessness and incompetency have been found to be the chief illnesses of the human machine resulting in disaster.

"4. There is an annual death of 7000 children of school age and it has been found that more than twice as many

children between the ages of 6 and 12 are killed than between any other similar group between 1 month and 70 years. The reasons for fatalities between the ages of 6 and 12 are for the most part psychological and avoidable through proper education of the child.

"5. While the total number of accidents resulting from recklessness by intoxicated drivers is small as compared with total accidents reported, they more often result in mortalities. Drastic legislation in nearly every State has brought the number of deaths from this source to a considerably lower level than in 1921.

"6. The economic loss resulting from highway accidents is estimated at \$50,000,000 per month, or \$600,000,000 per year. This conclusion has been drawn from reports of various insurance companies and police departments of the country."

The ultimate objectives of the general movement for highway safety are as follows:

"First, the education and regulation of pedestrian traffic as well as motor vehicle traffic. Pedestrians as well as drivers are to be subject to the traffic regulations, the violation of which would be considered a misdemeanor.

"Second, the adoption of a standard code of motor vehicle laws in every State of the Union. The code should include a through examination of all drivers.

"Third, education in safety and accident prevention, as the American Road Builders' Association recommends, will be incorporated in the curricula of elementary schools, both public and private, parochial schools, night schools, vocational schools and citizenship schools. It will also be carried on through educational contests, organized playground, training, schoolboy patrols, boy and girl scouts, and junior safety organizations.

"Fourth, motorists will be asked to protect the design and material of their automobiles by periodic adjustment and replacement. Particular emphasis will be put on the construction and adjustment of headlights, steering apparatus and brake mechanism.

"Fifth, a comprehensive program of street widening and the elimination of grade crossings will be carried out throughout the nation."

As a culmination of this program to teach the nation more about the prevention of automobile accidents, the Highway Safety Club has been organized. Every individual, adult and child is urged by the American Road Builders' Association to participate in this general movement. The desire and intention to do so may be expressed by signing the pledge printed below or other similar pledge cards. Upon returning this signed pledge to the offices of the organization at Washington, D. C., a membership card will be furnished free of charge, to be kept as a permanent reminder of responsibility.

"PLEDGE

"Knowing that suffering, sorrow and unhappiness usually follow street and highway accidents, I will co-operate in an effort to avoid them by using *courtesy* and *caution* at all times, and especially when driving an automobile; I will observe traffic regulations and drive my car so that it may be controlled and stopped within a safe distance.

"I will instruct all persons in my employ and urge others to use *courtesy* and *caution* at all times and never exercise haste to the point of creating a hazard.

"I endorse the movement for Greater Highway Safety and will lend my aid in every practical way.

"The foregoing I promise upon my honor.

.....
Name

.....
Address

"Sign and return to American Road Builders' Association, Washington, D. C., and receive membership card free."

New Asphalt Pavements for Montgomery.

Montgomery, Ala.—Mayor Gunter and the City Commission have awarded extensive street paving contracts to Hodgson & Jones and Robert G. Lassiter & Co., using Novoid sheet asphalt, a form of sheet asphalt pavement construction, controlled by the Novoid Paving Company of Raleigh, N. C., headed by George B. McGrath and associates.

Proposed \$1,250,000 James River Bridge at Jamestown—To Be 12,540 Feet Long.

Details of the proposed James River bridge at Jamestown, Va., to be constructed by the Eastern Virginia Bridge Company, of which Channing M. Ward of Richmond is president, have been supplied by Robinson & Steinman of New York, engineers for the project. As previously announced, a franchise for the construction of the bridge was secured several months ago and engineers engaged. The structure will cross the James River between James Island in James City County and Scotland Neck Landing in Surry County. The northern end of the bridge will be located near the present public landing on the southern shore of James Island, southeast of the site of the original town of Jamestown. The cost of the project is estimated at \$1,250,000.

The width of the river at this point is said to be 7730 feet between shore lines, and with the approaches the total length of the structure will be 12,540 feet. The bridge will consist of a 240-foot swing span located at the deepest water and flanked by 1900 feet of concrete trestle spans for the northerly approach and 5660 feet of similar construction for the southerly approach. The swing bridge at the navigation channel will provide two clear openings of 100 feet each for the passage of vessels, while a roadway 21 feet wide between curbs will be carried over the entire structure. Roadway approaches at both ends of the bridge to connect with existing highways are included in the project.

Highway Safety Suggestions Contest.

Prizes totaling \$1000 are offered by the American Road Builders' Association, Washington, for the best ideas for reducing the number of highway accidents occurring each year, the contest being held in connection with a national safety campaign which will close at midnight, November 15. The awards are offered for "the best workable plan that will decrease street and highway accidents and the plan may be a complete, comprehensive thesis covering the entire subject or a mere description of a single idea that would contribute to highway safety. The plan must be practical and capable of being put into operation at reasonable expense." More than 114,000 persons have been killed and nearly 3,500,000 injured during the past five years as a result of highway accidents; last year the toll was 25,302 killed and 759,060 injured, and the economic loss was \$638,875,500.

Offers \$450,000 for Scenic Highway Work.

Crestview, Fla.—A sum of \$450,000 from a recent \$600,000 bond sale, has been formally tendered the State Highway Commission by the Okaloosa County Commission, the funds to be used for the construction of the county's part of the Gulf Coast Scenic Highway, the extension of State road No. 33, Crestview to Niceville, and State road No. 41, Milligan to the Alabama State line via Baker. Chairman Fons A. Hathaway of the State Highway Commission, and J. L. Cresap, chief engineer, have agreed to send locating crews on each section as soon as possible.

Asks Bids on \$1,500,000 Highway Bonds.

Greenville, S. C.—Sealed proposals will be received until October 17 by H. P. Dill, supervisor of Greenville county, for the purchase of \$1,500,000 highway bonds. Bidders are invited to name the rate of interest the bonds shall bear, the rate to be a multiple of one-quarter of 1 per cent and not to exceed 5 per cent. The bonds will be issued in denominations of \$1000 and will mature serially from February 1, 1932, to February 1, 1946, inclusive.

Asphalt Paving Conference at Atlanta.

The Sixth Annual Asphalt Paving Conference will be held at the Atlanta-Biltmore Hotel, Atlanta, Ga., under the auspices of the Asphalt Association and the Association of Asphalt Paving Technologists, during the week of November 28, and will bring together distinguished engineers, officials, asphalt research specialists, contractors and manufacturers.

Thomas H. MacDonald, Chief of United States Bureau of Public Roads, listed as one of the speakers, is expected to stress the great national problem of conserving the vast mileage of highways already constructed through some method of resurfacing which will utilize the full foundation value of old pavements, as into the construction of these has gone the immense investment of some \$8,000,000,000. Col. Woolsey Finnell, Director of Highways of Alabama, is chairman of the engineering committee, and his associates on the committee constitute an impressive list of the foremost State, city, county and research engineers throughout the United States.

Francis P. Smith, consulting engineer, of New York city, is chairman of the research committee; L. B. West, president of the West Construction Company, Chattanooga, Tenn., is chairman of the contractors' committee, and W. A. Hansell, Jr., Chief of the Department of Construction, Atlanta, is chairman of the local committee. Bobby Jones, greatest golfer of all time, will be active in arrangements for the golf tournament, and will play an exhibition match with Watts Gunn, almost equally famous.

A survey of the equipment field in highway and street work will be presented by Charles M. Upham, director of highway research of the National Research Council and business manager of the American Road Builders' Association, while a survey of the surface treatment field will be presented by C. N. Conner, chairman of low cost improved roads committee of the Highway Research Board. The technical research program at the session presided over by Hugh W. Skidmore, president, Chicago Paving Laboratory, Chicago, Ill., will include papers by A. R. Ebberts, engineer of tests, Allegheny county, Pennsylvania; A. W. Dow, chemical engineer, New York; H. L. Howe, Jr., director of municipal testing laboratory, Rochester, N. Y.; Francis P. Smith, consulting engineer, New York; Prevost Hubbard, consulting engineer of the Asphalt Association, New York; Victor Nicholson, engineering chemist, Department of Public Works, Chicago, and others. State highway progress will be presented by the heads of State highway departments, including Ben M. Sawyer, chief highway commissioner of South Carolina; Col. Woolsey Finnell, and C. N. Bass, State Highway Commissioner of Tennessee. Successful black base construction over a long period of years in Savannah, Ga., will be described by City Engineer W. O'D. Rockwell of Savannah, and relative advantages of smooth and rough texture asphalt surfaces will be discussed by Arthur H. Blanchard, consulting engineer, Toledo, Ohio. The economic management of a county highway system will be described by W. S. Hawkins, county engineer, Gulfport, Miss., while maintenance requirements and service records and what they have developed will be subjects presented by G. F. Fisk, first assistant city engineer, Buffalo, N. Y.

Big business is taking note of the fact that the highway industry has reached the select billion dollar group, and producers and manufacturers represented at the conference will include the Standard Oil Company of New Jersey, Standard Oil Company of Indiana, Mexican Petroleum Corporation, Midwest Refining Company, Imperial Oil, Ltd., of Canada, New Orleans Refining Company and other big producers. The Asphalt Association, J. S. Helm, president, with headquarters in New York city, is active in the arrangements for the conference.

LUMBER AND BUILDING MATERIALS

North Carolina Band Mill Completed.

Robbinsville, N. C.—The Bemis Lumber Company completed a band mill here for manufacturing lumber from timber on 40,000 acres of virgin forest in Graham County. The property is owned by the Champion Fibre Company, the Bemis Lumber Company and the Gennette Lumber Company. In opening up the timber property the first step was to construct 14 miles of railroad from Tipton to Robbinsville, known as the Graham County Railroad, completed in 1926. Then the building of houses started. This year work began on the band mill, an 8-foot mill with a 6-foot horizontal slab resaw. The building is 60 by 180 feet. The boiler house is of brick and steel and houses two boilers of 309 horsepower, manufactured by The Walsh & Weidner Boiler Company, Chattanooga, Tennessee. The engine house is connected with the saw mill building and in addition to the engine, houses a generator. The mill, manufactured by the Allis-Chalmers Manufacturing Company, Milwaukee, Wis., was moved from Bemis, W. Va. Waste from the mill is converted into fuel in the saw mill and is conveyed to a fuel house of brick construction, 26 by 60 feet and 30 feet high, large enough to hold a ten days' supply of fuel. Conveyors are used to carry the fuel to the boiler room. A machine shop, 60 by 110 feet, equipped with a 10-ton traveling crane, will handle all repair work.

The lumber sorting shed is connected with the yard by concrete pavements. The yard has concrete roadways throughout and the lumber is conveyed from the sorting shed to the yard by tractors, and a mechanical stacker is used to pile the lumber. The yard has a storage capacity of 6,000,000 feet.

The mill was designed and constructed by Charles B. Sewell.

Order Placed for Materials for 310 Houses for Flood Victims.

Little Rock, Ark.—The Arkmo Lumber Company recently obtained a contract for materials for 310 houses for flood sufferers. These houses were designed by C. L. Thompson, Wittenberg & Deloney, and Sanders & Ginocchio, Little Rock architects. The lumber contract, filled for the Rehabilitation Bureau of the American Red Cross, involves approximately 2,000,000 feet, or about 125 carloads. In addition there will be four carloads of roofing, a carload each of windows and doors, two carloads of lime and one each of nails, screen doors and cement.

The company recently announced plans for establishing wholesale and distributing yards in North Little Rock. The new plant will employ 25 to 50 men and will include a lumber shed 600 feet long, a warehouse 50 by 300 feet and an office building of brick and concrete, timber docks, tile and shingle sheds, a planing mill with a daily capacity of 35,000 feet, fuel and boiler house and dry kilns. P. B. Starmer will be in charge of the plant.

Creosoted Wood Block Floors in Demand.

The use of treated wood block floors in the United States in 1926 showed an increase of 17 per cent over the previous year, according to the United States Forest Service in co-operation with the American Wood-Preservers' Association. A total of 10,822,518 square feet of these blocks was laid, the preservative being creosote oil and creosote coal-tar paving oil.

Wood blocks are a favored floor material in factories, mills, machine shops, foundries, warehouses, etc., because of their high wearing qualities and resilience.

New Booklet on Southern Pine.

"Southern Pine—The Supreme Structural Wood of the World" is the title and theme of a new handbook on Southern pine, its properties and uses, just published by the Southern Pine Association. Usefulness to everyone having anything whatever to do with lumber in any of its forms is the purpose of this 64-page manual, say the publishers.

Creosoting Plant Completed at Brewton, Ala.

Brewton, Ala.—The creosoting plant of the T. R. Miller Mill Company, Inc., recently began operation. It consists of a 72-inch by 82-foot cylinder with the necessary storage tanks, scale tanks, etc., furnished by the R. D. Cole Manufacturing Company, Newnan, Ga. Tram cars were furnished by the Pressed Steel Company, Alliance, Ohio. All of the equipment is electrically driven. Steam is used for steaming the material to be treated and for heating the oil. The plant has an estimated capacity of four carloads of material every 24 hours. The storage yard covers about 40 acres. It was designed by Grant B. Shipley, Pittsburgh, Pa., consulting engineer.

Urges Use of American Cement.

Confronted by tremendous imports of cement from foreign countries, duty free, made by cheap machinery and by near-pauper foreign labor, the Building Material Dealers Association of Eastern Pennsylvania has adopted a resolution urging that "public moneys should not be expended for the purchase of foreign cement to be used in roads and other public improvements, to the detriment of American industries and taxpayers." Four million barrels of portland cement were imported in 1926," says a preamble, and "more than 10,000,000 barrels, duty free, since January 1, 1923."

In the Tariff Act of 1922, Roman, portland and other hydraulic cements appear in the Free List, except that if any other country impose an import duty, the United States shall impose a similar tariff. As foreign cement is manufactured at a far lower cost in wages than American cement, it is hardly likely that any foreign country will require a protective duty for that industry.

The MANUFACTURERS RECORD approves the use of American cement not only on all public projects, but in all private construction enterprises, likewise.

The Lumber Movement.

According to telegraphic reports from 351 of the major softwood lumber mills of the country, received by the National Lumber Manufacturers Association, for the week ended September 24, the volume of new business was almost the same as a year ago, and shipments and production somewhat more. Reports from 140 of the chief hardwood operations compared with reports from 123 mills for the week earlier, show increases in all three factors. In comparison with reports for a year ago, when 145 mills reported, production was about the same and considerable decreases in shipments and new business.

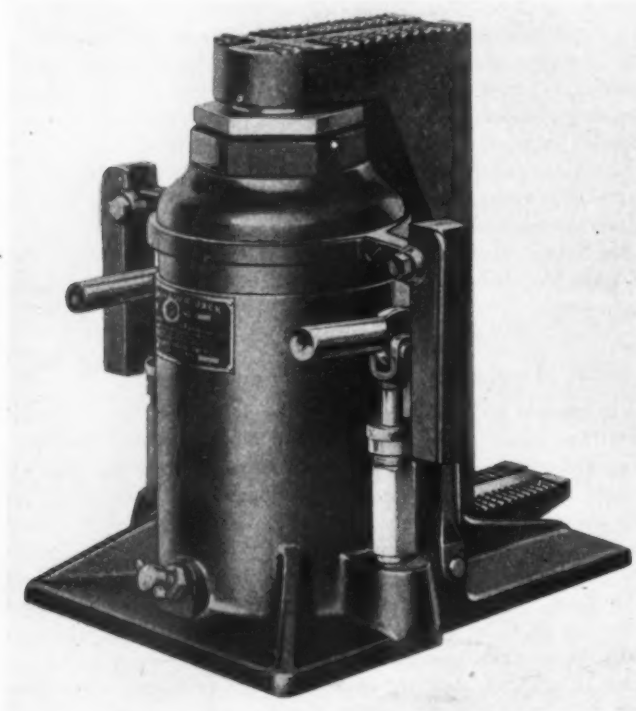
The unfilled orders of 224 Southern Pine and West Coast mills at the end of last week amounted to 604,382,938 feet, as against 607,651,855 feet for 224 mills the previous week. The 104 identical Southern Pine mills in the group showed unfilled orders of 229,171,200 feet last week, as against 232,407,040 feet for the week before.

Altogether the 336 comparably reporting softwood mills had shipments 96 per cent and orders 91 per cent of production.

MECHANICAL

Improved Oil-Operated Jacks.

One of a line of hydraulic type jacks that use oil as a lifting medium is shown in the picture herewith. They are made in different capacities ranging from 1½ to 75 tons. Since acquiring this line of jacks from the Hydraulic Tool Company of Los Angeles, Cal., the Blackhawk Manufacturing Company of Milwaukee, Wis., it is stated, have made improvements, with the result that they have one of the most com-



NEW "FLOOR LIFT" JACK.

plete and efficient series of jacks on the market. Each jack is tested at the factory far beyond its rated capacity; the pump is placed at the base of the jack, allowing maximum clearance for operating the pump handle.

A recently taken photograph which—owing to limitations of space cannot be reproduced satisfactorily here—shows several of these Blackhawk hydraulic floor lift jacks, Model H-14, as they were in use by Stone & Webster unloading a mammoth electrical crane, the huge load being under constant

control as these jacks, it is observed, will raise or lower a load to one one-thousandth of an inch of a desired point.

It is further noted that the jacks can be operated in positions where space is very limited and that less power and effort are needed in raising a load, as a full stroke of the pump is not necessary; the lightest movement of the pump handle will lift it. It is also important to state that the pump and ball check are built on the outside of the jack so that it is easy to get at the ball check unit—the heart of the jack, patented. Furthermore, the release valve is entirely separate from the pump, so that its action is positive, and accidental lowering is prevented. By turning the release valve the load is automatically lowered, fast or slow as wished, and it is easily and positively controlled. Heavy duty jacks have two pumps—one low pressure speed pump to raise the plunger quickly to the point of contact and one high pressure pump to carry the load. The heaviest of the jacks, it is said, can be carried easily by two men. It can be operated horizontally when the pump is on the down side.

There are a number of other prominent users of these jacks, which are produced in 10 models and in 9 capacities.

Wrought-Iron and Steel Pipe Standardization.

The ever-increasing use of wrought-iron and wrought-steel pipe for industrial and domestic uses makes it more and more desirable to have nationally recognized standards of design, dimensions and materials for such pipe and tubing, states the American Engineering Standards Committee.

A large amount of preliminary work has been done in this direction by the American Society for Testing Materials, the American Society of Mechanical Engineers, the National Committee on Metals Utilization and other national organizations, but in order to develop unified nationally recognized standard specifications, all existing standards and specifications will now be thrown into a common pool and a representative sectional committee, containing delegates from every important interest concerned, will carry on a large program of standardization under the auspices of the American Engineering Standards Committee. The American Society for Testing Materials and the American Society of Mechanical Engineers will act as leaders in this work and will proceed promptly with the organization of the sectional committee.

Trackson-Fordson at Clay Products Plant.

The Robinson Clay Products Company of Clearfield, Pa., has effected a saving of at least \$15 a day by using the Trackson Full-Crawler-equipped Fordson tractor for hauling ashes and refuse, according to Superintendent W. D. Gilson.

The crawler tractor has replaced three men, two horses and one truck. Mr. Gilson says that the company formerly used two horses, eight men and two trucks regularly to do the hauling, and frequently had to call in the services of additional trucks to clean up the refuse accumulated. At present the Trackson-Fordson and two Miami trailers do most of the work, with the part-time assistance of one truck, and with only five men on the job.

The tractor is in use for 9½ hours a day. It makes the haul from the company's yards to the dump, about one-half mile away, in 20 minutes, averaging loads of two tons per trip. Part of the haul is over pavement, but most of it is on rough roads. This machine is made by the Trackson Company, Milwaukee, Wis.



TRACKSON-FORDSON WITH LOADED TRAILER.

CONSTRUCTION DEPARTMENT

EXPLANATORY

Additional information is published about all enterprises mentioned in this department as soon as such data can be obtained.

The date at the end of an item indicates issue of the Manufacturers Record in which earlier facts about the same enterprise were published.

DAILY BULLETIN

The Daily Bulletin is published every business day to enable its subscribers to follow up promptly the industrial, commercial, railroad, financial, building and general business development of the South and Southwest. To machinery manufacturers and dealers, contractors, engineers and others who require daily information of every new enterprise organized and details about important additions to enterprises already established, the Daily Bulletin is invaluable. Subscription price, \$30.00 a year.

Airports, Airplane Plants, Etc.

Fla., Ft. Lauderdale—Florida Power & Light Co., W. A. Glass, Mgr., Miami, reported, install 5,000,000 candle power beacon to guide planes to Miami airport.

Fla., Pinellas Park—Chamber of Commerce, H. L. Whitney, Executive V.-Pres., interested in establishment of airport, necessary land available, plans under way.

Fla., St. Petersburg—City Commn. let contract to Nicholas Construction Co., 634 Second Ave. S., at \$5,200 for hangar, 40x70-ft., tile and stucco, wood trusses, concrete floors, 4-ply asbestos roof; Henry Dupont, Lewis Bldg., Archt.; Emil A. Nordstrom, Structural Engrs., City Hall. 9-15

Fla., Tampa—The McMullen Aircraft Corp., Box 4184, acquired site for airport, will equip with flood lights for night flying, battery of fireproof hangars and fully equipped shop buildings; operate aeronautical school specializing in mechanical and technical courses. 9-29

Mo., St. Louis—City, reported, interested in purchase of Lambert-St. Louis airfield and adjoining area, total of 600 acres. Address City Clerk.

N. C., Charlotte—Chamber of Commerce, reported, leased site for commercial airport; The Radiator Specialty Co., 311 E. Fifth St., will construct hangars, steel and wood framework, covered with sheet iron; will probably sub-lease privilege of operating garage and filling station. 7-21

Tenn., Memphis—Mississippi Valley Airways, Inc., increased capital \$100,000 to \$150,000. 8-11

Tex., Harlingen—Valley Airways Co., Inc., chartered; O. N. Joiner, F. B. Ray, R. M. Hubbard.

Tex., Houston—City of Houston has leased from W. T. Carter Lumber & Building Co., 1201 Capitol Ave., airport (now under construction) for free use of field, hangars and facilities for all municipal, state and federal operated ships including contract air mail planes; in addition headquarters of the 36th Div. Aero Squadron will be established in south end of field, facilities include 3 hangars, administration building, warehouse, etc. 9-29

Va., Richmond—Pitcairn Aviation Co., Inc., Land Title Bldg., Philadelphia, Pa., reported, has permit for erection \$14,000 hangar at Byrd Airport, contain 15,000 sq. ft. floor space, to be completed by Oct. 15. 9-8

Bridges, Culverts and Viaducts

Proposed Construction

Alabama—State Highway Commn., receives bids for 8 bridges and 3 culverts. See Roads, Streets, Paving.

Ark., El Dorado—Union County plans ½ mi. embankment through Dry Creek bottoms, on Schuler road, 9 mi. from El Dorado, and bridge over Dry Creek. Address County Commrs.

Ark., Morilton—State Highway Dept., Dwight H. Blackwood, Chmn., Little Rock, plans 12 mi. bridge over Cedar Creek, northwest of Morilton.

Ark., Van Buren—Crawford County, George Stockard, County Judge, plans re-building Lee Creek Bridge.

D. C., Washington—Arlington Memorial Bridge Commn., U. S. Grant, Third, Lt.-Col. Corps of Engrs., Executive & Distributing Officer, receives bids Nov. 7 for superstructure, exclusive of bascule span, of Arlington Memorial Bridge, connecting North and South across Potomac River, between Lincoln Memorial and Arlington Cemetery; plans on file; John N. Nagle, Designing Engineer. 8-18

Fla., St. Augustine—War Dept., Washington, D. C., granted permit to St. Johns County Commrs., C. Samuel Johnson, Mgr., for 200-ft. trestle, bascule span and approach, over Matanzas River, in connection with building County Road No. 10, connecting State Road No. 4 and Anastasia Blvd., at Crescent Beach; county will receive bids soon. 9-29

Fla., St. Augustine—St. John's County Commrs., J. D. Rahner, Chmn., considering 2 bridges linking segments of State Road No. 47 in western part of county: Six Mile Creek Bridge, creosoted pile, with 12-ft. 8-in. clearance at mean high water; Trout Creek Bridge, 15-ft. clearance; C. Samuel Johnson, Mgr.

Fla., Tampa—War Dept., Washington, D. C., approved plans for State of Florida to build ten 30-ft. concrete girder spans, two 120-ft. steel truss spans, and 150-ft. spring draw span, near Alfa Bay, near Riverview, Hillsborough County.

Ga., Atlanta—Alderman W. B. Hartsfield, Chmn. Bridge Committee of Council, receives bids soon for twin viaducts at Pryor St., and Central Ave.; S. B. Black, Bridge Engr., 458 Clairmont Ave.; I. N. Ragsdale, Mayor. 9-15

Ga., Fitzgerald—E. M. Elliott and Associates, Inc., 360 North Michigan Blvd., Chicago, Ill., have franchise for ½ mi. steel bridge, bascule draw, over Okmulgee River; elevated approaches; direct line between Fitzgerald and McRae. 9-29

Ky., Paducah—Illinois Central R. R. Co., A. F. Blaess, Ch. Engr., Chicago, Ill., plans constructing thoroughfare crossing at its tracks, Kentucky Ave.; J. N. Bailey, Mayor.

Md., Frederick—Pennsylvania R. R., T. J. Skillman, Ch. Engr., Philadelphia, plans expending \$35,000 to \$40,000 to repair railway bridge over Monocacy River at Harmony Grove; rebuild abutments and piers; reinforce steel work.

Missouri—E. M. Elliott & Associates, Inc., 360 Michigan Blvd., Chicago, Ill., have franchise for 1,700-ft. steel bridge across Missouri River, at point between Independence and Liberty, crossing at or near Liberty Landing; 55-ft. above mean high water; to land on rock shelf, Clay County, and on concrete piers, Jackson County; earthen fill approach, with intermittent concrete openings and sluiceways through it; 2,000-ft. steel bridge across Missouri River, at Arrow Rock, 60-ft. above mean high water, combination concrete trestle and earthen fill, as easterly approach; also 2,150-ft. steel bridge across Missouri River at Miami, rock bluff on one side, and long earthen and concrete approach on other; fabrication and erection information from Kansas City Structural Steel Co., 21st & Metropolitan Ave., and Union Bridge and Construction Co., Shay Bldg., both Kansas City, Mo.; engineering, financial and other information on file.

Miss., Vicksburg—Warren County Board of Suprs. may receive bids soon for 3 bridges: Over A. & V. R. R., at site of Two Mile Bridge; over Deer Creek; over Slough, back of Vicksburg Kiln Co., Yazoo City Rd., on road to Brunswick.

Mo., Kansas City—State Public Service Commn., Jefferson City, reported, authorized construction of \$1,900,000 viaduct on Winner road, between Kansas City and Independence, to be built by city of Kansas City, Missouri Pacific R. R. Co., E. N. Hadley, Ch. Engr., St. Louis; Frisco Lines, F. G. Jonah, Ch. Engr., St. Louis; Kansas City Southern Ry. Co., A. N. Reece, Ch. Engr., Kansas City, and spur railroad of Sheffield Steel Corp. plant.

Mo., Springfield—City received low bid from List and Weatherly Construction Co., Railway Exchange Bldg., Kansas City, at \$192,467, for 1577-ft. Grant Avenue viaduct,

over Jordan Valley, west of Frisco passenger station; E. W. Freeman, Mayor.

N. C., Wilmington—State Highway Commn., Frank Page, Chmn., Raleigh, plans receiving bids in about 60 days for bridge across Cape Fear and North East Rivers, connecting on west side with Highway No. 2, direct to Southport; cost about \$1,250,000; War Dept., Washington, D. C., recently granted permit to build bridge. 3-17

Okla., Miami—E. M. Elliott and Associates, Inc., 360 Michigan Blvd., Chicago, Ill., have franchise for 600-ft. reinforced concrete bridge across Spring River, north of Miami; 1,000-ft. elevated concrete trestle, with intermittent openings; approach bridge from east and west.

S. C., Greenwood—Georgia & Florida R. R., H. B. Holmes, Ch. Engr., Augusta, Ga., plans underpass at crossing.

South Carolina—War Dept., Washington, D. C., approved plans of State Highway Dept., Ben M. Sawyer, Ch. Highway Commr., Columbia, for bridge over Little Pee Dee River near Nichols and over Edisto River near St. George.

Tennessee—Dept. of Highways and Public Works, Nashville, plans receiving bids about Dec. 16 for 3 bridges: Over Tennessee River at Perryville; over Clinch River, Kyles Ford; over Little Tennessee River, Niles Ferry; C. N. Bass, Commr.

Tenn., Carthage—Smith County Court plans bridge across Caney Fork River, about 17 mi. from mouth.

Tenn., Franklin—Dept. of Highways and Public Works, C. N. Bass, Commr., Nashville, plans concrete bridge over Harpeth River, at Main St.

Tenn., Knoxville—City, Alexander Harris, Service Director, appropriated \$28,000 additional for Broadway viaduct.

Tenn., Knoxville—City, Alexander Harris, Director of Public Works, Knox County, and Southern Ry. System, B. Herman, Ch. Engr., Washington, D. C., considering underpass on North Broadway, at Whittle Springs. 8-19-1926

Tex., Fort Worth—City, O. E. Carr, Mgr., received low bid from Purvis & Bertram, at \$23,285, for concrete bridge across Marine Creek, North Main St. 9-22

Tex., Houston—City, J. C. McVea, Engr., plans repairing Preston Avenue bridge.

Virginia—State Highway Commn., received low bids for 2 bridges. See Roads, Streets, Paving.

Va., Jamestown—Eastern Virginia Bridge Co., Channing M. Ward, Pres., 2314-A Grove Ave., Richmond, has franchise for 12,540-ft. concrete bridge, with approaches, over James River, between James Island, James City County, and Scotland Neck Landing, Surry County; 240-ft. swing span at deepest water, and banked by 1,900 ft. concrete trestle spans for northerly approach, and 5,600 ft. concrete trestle spans for southerly approach; swing bridge at navigation channel will provide 2 clear openings 100 ft. each for passage of vessels; 21-ft. concrete roadway; maximum grade of bridge will be 1.25%; Robinson & Steinman, Conslt. Engrs., 25 Church St., New York.

Va., Portsmouth—Norfolk County, Comm. of Roads and Bridges, R. B. Preston, Engr., receives bids Oct. 7 for 4,000 sq. yd. asphaltic surface treatment on floor of Western Branch Bridge; plans on file.

W. Va., Mason City—Ch. Engr. War Dept., Secretary of War, Washington, D. C., reported, approved plans of Pomeroy-Mason Bridge Co., Robert L. Hogg, for suspension bridge over Ohio River, between Mason City and Pomeroy, Ohio; 650-ft. horizontal clearance, and 40-ft. vertical clearance above water, except short distance between 2 towers, included in plans; 584-ft. long, 2 end

spans about 250 ft.; 106-ft. above low water mark; Dravo Construction Co., Pittsburg, may be awarded contract; Maj. E. D. Ardery, U. S. Dist. Engr.; Ch. Engr., Maj. Edgar Jawdin. 4-28

Contracts Awarded

Fla., Crestview — Okaloosa County Commrs. let contract to Collins & Hicks, Milton, for 4,000-ft. 16-ft. trestle bridge, creosoted materials; estimated cost \$35,000.

Georgia—State Highway Board let contract for 7 bridges. See Roads, Streets, Paving.

Ga., Wadley—H. E. Ragsdale, Macon, has contract for concrete bridge across Williamson Creek, in southern part of Wadley.

Miss., Columbus—Lowndes County Board of Supvrs. let contract to Walters & McCrary, at \$13,500, for 5 creosoted pile bridges on Artesia-Mayhew road, Dist. No. 5.

Miss., Indianola—C. G. Abbott Construction Co., Greenwood, has contract for steel and timber bridge across Sunflower River at Dockery. 9-22

Mo., Houston—Texas County Court let contract to Amy Brothers Construction Co., Licking, for low water bridge across Roubidoux Creek, Plato-Lebanon road.

Mo., Jefferson City—City, C. B. Steers, Clk., let contract to Joseph Pope, at \$6,000, for Dunklin Street Bridge joining Southside and Washington Park. 9-22

Okla., Kenton—State Highway Comm., Oklahoma City, let contract to L. N. Swope & Son, Cimarron, New Mexico, at \$21,800, for 400-ft. State Line bridge, exclusive of earth work, on Carrizozo Creek, 2 mi. west of Kenton, connecting Oklahoma Highway No. 11, U. S. No. 64, with New Mexico section of U. S. Highway No. 64; Clark R. Mandigo, State Highway Engr. 9-22

S. C., Orangeburg—Orange County Highway Comm., J. W. Smoak, Chmn., let contract to Simons-Mayrant Co., Ft. Chapel St., Charleston, at \$25,392, for 3 concrete highway bridges on Bowman-Providence road across Four Holes Swamp, aggregating 372 ft. 9-22

Tenn., Union City—Dept. of Highways and Public Works, C. N. Bass, Commr. Nashville, let contract to Ferguson Construction Co., Rockford, Ill., at \$214,322, for bridge over Obion River, State Highway No. 3, between Obion and Trimble, Obion County; 100-ft., one 40-ft., and one hundred 26-ft. concrete deck girder spans. 9-8

Texas—State Highway Comm., let contract for 4 bridges. See Roads, Streets, Paving.

Canning and Packing Plants

Miss., Blue Mountain—Mississippi Canning Co., incorporated; J. J. McKinstry, W. L. Keith, W. G. Bennett.

Tex., Longview—J. H. Atkinson, of Longview Canning Co., reported, to sell \$25,000 stock to be added to \$75,000 already sold; canning of products will begin next Spring.

Tex., Mercedes—J. W. Monk, Sec.-Mgr., Chamber of Commerce, interested in promoting establishment of plant for canning vegetables and fruits.

Tex., San Benito—Texas Citrus Fruit Growers' Exchange, Mission, John H. Shary, Pres., purchased site for packing house and probably canning factory; now investigating with view to purchasing machinery; erection of building may be postponed until next fall; cost about \$100,000.

Clayworking Plants

Mo., Vandalia—Harblson-Walker Refractories Co., Farmers Bldg., Pittsburg, Pa., reported, acquired Walsh Fire Clay Products Co.'s plant, with capacity of 150,000 nine-inch fire bricks daily.

Tex., Houston—Rockface Brick & Tile Co., 414 West Bldg., acquired plant on Crosby Rd., daily output 20,000 dry press face brick; are installing machine invented by Dave Oliver, Mgr., of company; are making plans and specifications for rough texture dry press machine and these machines will be ready for market in near future. 8-25

Va., Suffolk—Soroco Brick Co., capital \$25,000, incorporated; W. T. Barrett, 118 S. Broad St., M. O. Spence, 116 S. Broad St., Louis Larson.

Coal Mines and Coke Ovens

Ala., Birmingham—Consolidated Coal Co., R. T. Daniel, Pres., advises: "This Company was organized under laws of Delaware, with capital stock of \$1,275,000; the property involved is what is known as the Bankhead property, near Jasper, Walker County, Ala., served by Northern Alabama and Southern Railway; present mine on property has ca-

capacity of approximately 1500 tons per day, but is our intention to increase this output by installation of additional electrical machinery on the inside of the mine and build modern washer and preparation plant, the whole involving an outlay of approximately \$200,000; plans are now being asked for covering the washer and plant; P. L. Dryer, Conslt. Engr., Pioneer Bldg." 9-29

Mo., Perry—Perry Coal Co., A. M. Boudinier, Pres., Box 173, has 300 acres to be developed; present output 75 tons daily, has equipment. 9-22

Concrete and Cement Plants

Ga., Atlanta—Atlanta Cinder Block & Tile Co. Inc., K. W. Brittain, 344 Ponce de Leon Ave., and E. M. Willingham, 344 Ponce de Leon Ave., owners, reported, plans purchasing adjoining property to erect modern factory.

Ky., Louisville—M. F. Kaufman Concrete Co., capital \$25,000, incorporated; Marshall F. Kaufman, 9 Kenworth Rd., Louis Kaufman, Blanche A. Kaufman.

Cotton Compress and Gins

La., New Orleans—Stuyvesant Compress Co., capital \$100,000, incorporated; A. M. West, E. J. Joanen, Jr., 2019 Lowerline St. erline St.

La., New Orleans—Churchill Electric Gin, incorporated; J. Howard Clark, B. D. Hill, C. F. Willey.

La., New Verda—Verda Gin Co., Inc., chartered; E. L. Saucier, Alexandria; A. A. Pool, Verda; R. D. Calhoun, New Verda.

La., Shuteston—Shuteston Gin Co., Inc., capital \$15,000, incorporated; R. Lee Mills, A. R. Burleigh.

Tex., Corpus Christi—Arkansas Compress Co., J. Kelly Cain, Pres., Well Bldg., reported, to construct duplicate of present plant; 372,000 sq. ft. of floor space, with capacity of 50,000 bales of cotton, giving total capacity of 100,000 bales cotton; other plants owned and operated are located at Harlingen, Edinburg, Robstown, Sinton, Raymondville, and San Juan.

Tex., Inadale—Inadale Gin Co., capital \$20,000, incorporated; Otto Hackfeld, W. S. Wimberly, Herbert Brock.

Tex., Raymondville—Raymondville Gin Co., J. J. Mayfield, Mgr., will erect cotton compress; frame and sheet iron, metal roof; let contract to Continental Gin Co., 3315 Elm St., Dallas, for complete gin plant, cost \$12,000.

Tex., San Saba—Ponton and Vogel, reported, plans rebuilding burned gin.

Drainage, Dredging and Irrigation

Fla., Sanford—Seminole County Supvrs., Slavia Drainage Dist., receives bids Nov. 1, for drainage system; P. Bayard Smith, Sec., 116 S. Park Ave.; Fred T. Williams, Ch. Engr. See Wants Section—Bids asked.

Louisiana—Geo. C. Schoenberger, Ch. State Engrs., New Orleans, La., reported, let following contracts to repair levees: To Howard Kenyon Dredging Co., 3605 McKinney St., Houston, Tex., for thirteen levee points on Red River, Avoyelles Parish, including Johnson Bayou levee; Norman landing; Brouillet settlement; Saline Point; Saline Point levee; Bayou Leannoir, Bayou Leannoir to Norman school house; Lake St. Agnes Bay; Lake St. Agnes Bay to Acadian Point; Acadian Point levee and Acadian Point to Lake Long, etc.; to S. T. Hulise, Melville, La., for levee points on Atchafalaya river, including St. Joseph church, Delana; Morgan ferry and Harvard slide; Bayou Petite; Prairie slide; Atkin Bayou scour and Two-mile Bayou; work to be completed by Mar. 31; other contracts awarded by Levee Dist. are to Picard Construction Co., Hicks Bldg., New Orleans, for Sarto group, Bayou des Glaisses; to L. O. Bordelon of Simmesport, La., for Simmesport leak, Bayou des Glaisses; to Clopton and Rushing on Bayou Current, Woodside schoolhouse, Avoyelles Parish; work to be completed by Jan. 15. 9-22

La., Ponchatoula—Bond issue of \$240,000 voted for drainage system to be known as Gravity Drainage Dist. No. 2, reported; address Parish Police Jury, Amite, La. See Financial News—Bond Issues proposed.

Tex., Freeport—Navigation Comsn., E. C. Toby, Chmn., reported, acquiring right-of-way for proposed diversion channel to change course of Brazos river; plans by J. F. Coleman, 1454 Joseph St., New Orleans, La. 9-29

Tex., Richmond—Brazos Valley Irrigation Co., of Sugarland, W. T. Eldridge, Pres., reported, has permit to irrigate 50,000 acres land in Fort Bend County.

Tex., Rio Grande City—Starr County Water Control & Improvement Dist. No. 1, plans irrigation system. See Financial News—Bond Issues Proposed.

Electric Light and Power

Electric light and power work in connection with many LAND DEVELOPMENT operations involves the expenditure of large sums of money. See that classification for details.

Ala., Gadsden—People's Hydroelectric Co., reported, plans construction of dam and power plant at Lock 2 on Coosa River.

Ala., Gadsden—Phoenix Engineering Co., subsidiary of Alabama Water Service Co., Birmingham, reported, acquired 600 acres for construction of dam and power plant on Terapin Creek.

Ala., Mobile—Cox Electrical Engineering and Supply Co., 13 Dauphin St., reported, has contract for St. Joseph street white way. 9-29

Ala., Montgomery—Alabama Power Co., Birmingham, reported, to expend \$100,000 for 110,000-volt primary substation in West Montgomery; capacity of 18,000 h.p.

Ark., Morrilton—Arkansas Power and Light Co., Pine Bluff, reported, expending \$15,000 for improvements; poles and lines are being constructed and being connected with 66,000 volt high power line recently completed; constructing private circuit from substation to pump station at Arkansas River; also install new street lighting fixtures.

D. C., Washington—Bureau of Standards, Department of Commerce, will award contract to Arthur L. Smith & Co., 2525 Pennsylvania Ave., N. W., for power plant building on Connecticut Ave. and Van Ness St.; structure to be of 2 sections, engine room, 35x98 ft., and boiler room, 47x137; brick, concrete and steel construction with limestone trimming; interior to be finished with glazed hollow tile; W. I. Deming, 808 17th St., N. W., Archt.; O. L. Britt, Mechanical Engr.; no equipment provided for in building appropriation but expected to follow within a year. 9-1

Fla., Pensacola—Gulf Power Co., 40 S. Palafox St., reported, install white way in parkway on Palafox St. between Garden and Wright Sts.; cost \$13,000.

Fla., Tallahassee—General Engineering and Management Corp., reported, constructing for West Florida Power Co., St. Petersburg, 15,000 h.p. hydro-electric power house and dam; concrete dam and spillway 36 ft. high; power house concrete and brick to house 3 vertical generators with combined output of 12,000 kw.; water storage pond to cover 13,000 acres. Company wires: General Engineering and Management Corp., New York, is building hydro electric plant on Ocklocknee River, consisting of power house, concrete spillway and earth dam 1 mile long; impounded area will cover 13,000 acres; Newport News Shipbuilding and Dry Dock Co., Newport News, Va., furnishing 3 water turbines; Westinghouse Electric & Mfg. Co., East Pittsburgh, Pa., furnishing 3 generators with combined capacity 12,000 kv-a.; Hardaway Contracting Co., First Natl. Bank Bldg., Columbus, Ga., Gen. Contrs.; Mees & Mees Inc., Johnston Bldg., Charlotte, N. C., Engrs. and Designers; work progressing favorably; earth dam and concrete spillway now being constructed."

Ky., Caneyville—Kentucky Utilities Co., Starks Bldg., Louisville, reported, acquired light and power system; to construct 12-mile transmission line from Leitchfield.

Ky., Louisville—Board of Public Works, reported, extend white way on Main St.

Md., Salisbury—E. H. Rollins & Sons, H. M. Bylesby & Co., Inc., Howe, Snow & Co., Blyth, Witter & Co., Eastman, Dillon & Co., offering \$3,300,000 first mortgage and first lien 20 yr. 5½% gold bonds, Series A, of Eastern Shore Public Service Co.; Eastern Shore Gas and Electric Co., incorporated under laws of Delaware in 1915, to be presently known as Eastern Shore Public Service Co., owns 100% of funded debt and capital stock, except directors' qualifying shares of Eastern Shore Public Service Co. of Maryland, Consumers Public Service Co. and Eastern Shore Gas and Electric Co. of Virginia; furnishes electric light and power service to Salisbury, Cambridge, Crisfield and Ocean City in Maryland and Exmore and Cape Charles in Virginia; proceeds from sale of these bonds and shares of preferred and common stock will be used for retirement of present outstanding funded debt of the company, to reimburse treasury of company and its subsidiaries for recent additions and

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betterments and for other corporate purposes; company is controlled through ownership of 100% of common stock, by National Public Service Corp., which operates public utility companies in New Jersey, Pennsylvania, Ohio, Delaware, Maryland, Virginia, West Virginia, North Carolina, Georgia and Florida; management supervised by Day & Zimmerman, Inc., 1600 Walnut St., Philadelphia, Pa. 9-29

Miss., Vicksburg—Warren County considering granting franchise to Mississippi Power and Light Co., Jackson.

North Carolina—Bonbright & Co., New York, and A. C. Allyn & Co., Chicago, are offering \$6,500,000 6% convertible gold debentures, Series A of American Electric Power Corp. of Delaware, R. P. Stevens, Pres.; company supplies electric power and light service to Wilmington, Del., and 13 communities in eastern North Carolina; gas service to 45 communities in Pennsylvania, 5 in New York, 5 in North Carolina and in a suburban district tributary to Washington, D. C.; supplies manufactured ice in Portsmouth, Va., Columbia, S. C., Winston-Salem, N. C., and 9 other cities in Virginia, North Carolina and South Carolina and transportation service in Wilmington, Del., and vicinity; proceeds to be used to reimburse corporation in part for purchase of certain of properties comprising this system.

N. C., Charlotte—Southern Power Co., reported, planning expenditure of \$25,000,000 for hydro-electric power developments in North and South Carolina; part of \$100,000,000 development program contemplated.

N. C., Charlotte—Southern Public Utilities Co., Charlotte, N. C., has franchise for furnishing all street lights and any lights that city may desire; Edgar Read, City Clk. 9-29

Oklahoma—Public Service Co. of Oklahoma, 401 World Bldg., Tulsa, Fred W. Insull, Pres., acquired electric properties of Dierks Lumber and Coal Co. in Southeastern Oklahoma, including power plants and distribution systems in Idabel, Broken Bow, Valliant, Tahliha, Pine Valley, Albion and Wright City; Southwest Gas & Electric Co., acquired electric power and light properties and franchises in southwestern Arkansas, including DeQueen, Nashville, Dierks, Foreman, Horatio, Mineral Springs, Murphreesboro, Hatfield, Gillam, Winthrop, Lockesburg and Center Point; will construct high tension transmission lines from Ashdown to Foreman and from Hugo to Wright City, utilizing present Dierks lines between Wright City and Foreman; will connect up oil pipe line pumping station near Broken Bow.

Okl., Taft—Muskogee Construction Co., Colorado Bldg., Muskogee, reported, has contract for power plant; 1 story, brick and concrete; cost \$25,000; M. T. Hardin, Archt., Equity Bldg., Muskogee.

Okl., Tulsa—J. F. Robinson, Miami, has state permit for a series of dams across Grand river for developing hydro-electric power.

Okl., Woodward—City, reported, plans 1000 h.p. Diesel engine addition to light and power plant; cost \$100,000; Black & Veatch, Engrs., Mutual Bldg., Kansas City, Mo.

Texas—Texas-Central Power Co., Frost National Bank Bldg., San Antonio, reported, applied to State Board of Water Engrs., Austin, for permission to construct series of low dams on Devil's River; construct dam 750 ft. long and 40 ft. high, with continuous appropriation of 550 second ft. of water and impound 10,750 acre ft. 5-26

Tex., Beaumont—City, reported, plans constructing white way on Fannin St. Address City Clerk.

Tex., Dallas—Texas Power & Light Co., C. A. S. Grenier, V.-Pres., Interstate Bldg., are offering \$4,000,000 first and refunding mortgage gold bonds, 5% series due 1956, through Harris, Forbes & Co., Coffin & Burr, Inc., Bonbright & Co., Inc., and Lee Higginson & Co., all New York; company supplies electric power and light service directly or indirectly to more than 225 communities including Waco, Denison, Sherman, Cleburne and Paris.

Tex., Harlingen—Central Power and Light Co., San Antonio, through Frank M. Kemp of Dallas, reported, plans purchasing the municipal light and water plant.

Tex., McCombs—Pecos Valley Power and Light Co., reported, double capacity of present plant on Pecos River.

W. Va., Buckhannon—City will install whiteway lighting system and traffic control signals; B. H. Simpson, City Engr.

W. Va., Elizabeth—Monongahela-West Penn Public Service Co., Watson Bldg., Fairmont, reported, erect power plant at Parkersburg-Elizabeth Highway; also install

street lights and is now erecting distribution system; water for operation of this plant to be secured from wells. 8-18

Flour, Feed and Meal Mills

Mo., St. Louis—Glosemeyer Flour Co., Merchants Exchange Bldg., will erect 3-story warehouse at 339 S. Vandeventer St., 50x114 ft., tar and gravel roof; cost \$23,000; C. J. Kreis, Archt., 820 Wainwright Bldg., Huger and Buecker Construction Co., Contrs., 801 Wainwright Bldg. 9-22

Foundry and Machine Plants

Ky., Louisville—Following sub-contracts let for constructing building of The Henry Vogt Machine Co.: Glass, Pittsburgh Plate Glass Co., 16th and Main St., steel sash, Detroit Steel Products Co., 318 N. Main St., brick, Coral Ridge Clay Products Co., Inter-Southern Bldg., elevators, American Elevator & Machine Co., 500 E. Main St.; H. A. Doll Co., Contrs., 1112 Louisville Rd. 9-29

Tex., Arlington—Southern Ornamental Iron Works, Inc., 2425 S. Harwood St., Dallas, reported, plans establishing branch plant, cost about \$60,000, including equipment.

Tex., Dallas—Grady Burlew, Inc., capital \$50,000, incorporated; Harry Gray, Jack Walmsley, R. P. Williamson.

Tex., Ft. Worth—H. A. Miles Manufacturing Co., Ben W. Freiden, Sec., F. J. Holmes Bldg., let contract to Wood W. Graham, 3433 Ave. M, for erection 75x100-ft. plant, brick, wood floor, composition roof; cost about \$25,000; manufacture stoves, gas heaters, etc.

Gas and Oil Enterprises

Fla., Jacksonville—Southeastern Oil Co., Enterprise Ave., incorporated; R. M. Johnson, 1561 Phyllis St.; P. W. Hutchinson, Ellen D. Hutchinson.

La., Bastrop—Ford, Bacon & Davis, 115 Broadway, New York, have contract for 66-mile pipe line from Halle, La., to El Dorado and Camden, Ark., for Gas and By-Products Co., a subsidiary of Electric Power and Light Corp.; Latex Construction Co. is construction division of Gas and By-Products Co. 9-1

La., Lake Charles—West Edgerly Oil Co., Inc., capital \$30,000, chartered; W. S. Green, 742 Pulo St., Rudolf Krause, Shell Beach Drive, Louis Siess.

La., Shreveport—Morgan Oil Co., capital \$25,000, incorporated; Harry I. Morgan, 1712 Fairfield.

Miss., Meridian—Magnolia State Minerals Co. of Jackson, reported, acquired tract of Lauderdale Gas and Oil Co.

Okl., Ponca City—Empire Refineries, Inc., Bartlesville, reported, plans \$1,000,000 expansion program during 1928; Keith Clevenger wires: "Expansion program not definitely determined."

Tennessee—Stoll Oil Refining Co., 207 W. Broadway, Louisville, Ky., reported, plans moving pipe line from Tinsley Bottom field to Mill Creek oil field, connecting line up through Hilkan over Windle.

Texas—Chester L. May, 5447 Vickery St., Dallas, representing Community Natural Gas Co., Dallas (branch of Lone Star Gas Co.), reported, making survey of city of Bryan for gas franchise; would supply Bremond, Calvert, Hearne, Cameron, Bryan with gas piped from Mexico.

Texas—Southern Gas Utilities, Inc., City National Bank Bldg., San Antonio, offering \$2,250,000 first mortgage 6½% sinking fund gold bonds, series A, through R. E. Wilsey & Co., Inc., and G. E. Barrett & Co., Inc., 20 Broad St., proceeds to be used in part for acquisition of properties, extension of pipe lines, working capital and other corporate purposes.

Texas—Southwest Gas Co., Curoe, reported, plans to provide towns of Nordheim, Yorktown, Runge, Kennedy and Karnes City with natural gas.

Tex., Austin—Lone Star Gas Co., 1915 Wood St., Dallas, reported, applied for franchise to distribute natural gas.

Tex., Big Spring—Reese Allen Refinery, reported, interested in establishing plant.

Tex., Clarendon—City, reported, installing gas system. Address City Clerk.

Tex., Crowell—City Council, reported, granted franchise to Culbertson Brothers of Fort Worth to furnish city with gas; construction on distribution system must start not later than 90 days.

Tex., Dallas—Murke Oil and Royalty Co., capital \$100,000, incorporated; Clint W. Murchison, Nathan Adams, 4604 Lake Side Dr., Richard W. Coke.

Tex., Saint Jo—Saint Jo Oil and Gas Co., incorporated; D. S. Builliner, H. D. Field, Jr., R. W. Donnell.

W. Va., Morgantown—Monongahela West Penn Public Service Co., Watson Bldg., Fairmont, reported, acquired Randall Gas Co.

Ice and Cold-Storage Plants

Ala., Mobile—Star Fish and Oyster Co., Industrial Canal, Fort Canal St., N. J. Gonzales, Pres.-Mgr., let contract to Doullut & Ewin, Inc., Queen and Crescent Bldg., New Orleans, La., for \$100,000 building; steel and concrete, built-up roof, concrete floors; install \$65,000 machinery; daily capacity 18 to 25 tons ice and 24,000 lbs. frozen fish; equipment installed by Southern Construction and Supply Co., 412 Hudson St. N. E.; Armstrong Cork and Insulation Co., Twenty-fourth St., Pittsburgh, Pa.; Republic Creosoting Co., Choctaw Point; Benson-Beckman Paint Co., 15 S. Commerce St., and McGowan-Lyons Hardware and Supply Co., Water St., all Mobile, Ala. 9-29

Tenn., Elizabethton—Elizabethton Ice and Coal Co., cor. Elm and Mill St., W. L. Crouch, Resident Mgr., plans establishing 50-ton raw water ice plant, electrically equipped, 400 tons cold storage space; 90x125-ft. building, to be in operation by March 1.

Tenn., Memphis—Fly & Hobson Wholesale Co., reported, let contract to F. J. Ozanne & Co., Empire Bldg., for erection cold storage plant cor. Florida Ave. and Dakota St.; 187x217 ft., brick, concrete and steel, with warehouse and office on main floor and cold storage on second floor; capacity 18 cars produce; cost from \$250,000 to \$260,000; J. Frazer Smith and H. M. Burnham, Archts., Goodwyn Institute.

Tenn., Memphis—Mississippi Valley Utilities Corp., incorporated under laws of Delaware, has purchased and consolidated under management of J. Edwin Conaway, Exchange Bldg., W. I. Moody, Wm. Orgill, sixteen ice manufacturing properties located in Tennessee and Mississippi. The Company primarily is engaged in manufacture and sale of artificial ice, serving twenty communities with ice at retail and in seven communities coal is also retailed; Company is offering \$120,000, 6½% first mortgage serial gold bonds, Series "B" through I. B. Tigrett & Co., 73 Madison Ave., Memphis, Tenn., and Geo. H. Burr & Co., 506 Olive St., St. Louis, Mo.; proceeds being used for acquisition of properties, betterment and extensions and for other corporate purposes. 5-19

Texas—Central Power & Light Co., Frost Bldg., San Antonio, reported, contemplates erecting cold storage plants at Brownsville, Harlingen and McAllen; brick and concrete.

Tex., Mercedes—J. W. Monk, Sec.-Mgr., Chamber of Commerce, interested in promoting establishment for killing, dressing and storage plant to handle poultry and eggs.

Tex., Pyote—H. M. Price of the Arctic Ice Co., Dallas, reported, interested in establishing \$60,000 ice and storage plant. 9-22

Tex., San Antonio—Dixie Ice Co., 802 Victoria St., increased capital, \$100,000 to \$200,000.

Tex., Sweetwater—Citizens Ice Co., Glenn Sample, Pres., plans erecting 35-ton ice plant; storage capacity 100 tons.

Iron and Steel Plants

Tenn., Memphis—Jones & Laughlin Steel Corp., Ft. of Auction St., let contract to Estes Williams Co., Demon Bldg., for plant addition, structural steel frame, corrugated iron siding and roofing, all materials except sand, gravel, cement, tile and steel sash to be furnished by owner; plumbing, Tutt & Tutt Co., 333 Poplar St., Memphis; steel sash, Detroit Metal Products Co., Monroe Ave., Detroit, Mich.

Tex., Galveston—Gray's Iron Works, 1901 A St., capital \$50,000, incorporated; Harry Gray, 3302 L St.; Jack Walmsley, 1702 20th St.; R. P. Williamson.

Land Development

Ala., Mobile—Wimbleton Park Land Co., Inc., 217 First National Bank Bldg., J. Gilbert Burton, V.-Pres., let contract to Brackin Construction Co., 57 St. Joseph St., and H. Massengale, 57 Lyons Park Ave., for roadwork and parkways in connection with development of subdivision; Stille & Van Kleek, 9711 Newbury St., Boston, Mass., and Taylor Arcade, St. Petersburg, Fla., Landscape Archts.; J. R. Peavy and V. K. Wagner, Constr. Engrs., Staples-Powell Bldg. 9-29

Fla., Fort Lauderdale—City defeated bonds for park. See Financial News—Bond Issues Proposed.

Fla., Fort Myers—Myers Co. incorporated; A. C. Marsh, R. E. Kurtz.

Fla., Fort Pierce—South Florida Products Corp. incorporated; R. N. Koblegard, W. H. Walker.

Fla., Lake City—Lake City Syndicate, Inc., capital \$30,000, chartered; A. J. Belfi, F. A. McAllister.

Fla., Lake Jovita—Lake Jovita Service Bureau, Inc., incorporated; J. T. Bradshaw, Harry Lewis.

Fla., Lake Placid—Lake Placid Club of Florida, Dr. Melvil Dewey, Pres., employed the A. D. Taylor Offices, Woolworth Bldg., Orlando, and Prospect and 46th Sts., Cleveland, Ohio, Landscape Architecture and Town Planning, to prepare plans for development of grounds about Lake Placid Lodge, Lake Placid.

Fla., Lake Wales—City has employed A. D. Taylor Offices, Woolworth Bldg., Orlando, and Prospect and 46th Sts., Cleveland, Ohio, to prepare landscape plans for Lake Wales water front park and athletic field adjoining.

Fla., Marianna—Chipola Park Co. incorporated; E. C. Smith, L. N. Smith.

Fla., Miami—Miami-Malolo Co., Inc., capital \$10,000, chartered; F. C. Maurer, J. E. Coleman, 2271 N. W. Fourth St.

Fla., Panama City—Gulf Research Co. incorporated; R. L. McKenzie, T. E. Crawford, C. M. Chandlee.

Fla., Sarasota—Belkay Co. incorporated; L. Kornfield, B. L. Kornfield.

Fla., St. Petersburg—Taylor Terrace Corp. incorporated; John B. Green, 1414 Kingdon St.; William Richman.

Fla., St. Petersburg—Development work of parks is centered on waterfront between Coffee Pot bayou and port of St. Petersburg; major portion of park development work will be completed this year, but will take 2 or 3 years before parks represent complete appearance; J. W. Peterkin, Superintendent of Parks; Charles Leavitt & Sons, 285 Madison Ave., New York, Landscape Architects.

Fla., Tampa—Goodacre Farms Co., capital \$11,000, incorporated; Guy Vinson, E. R. Bohannon, 2304 Mississippi St.

Fla., Tampa—North Street Industrial Subdivision incorporated; R. W. Shackelford, R. G. Trezevant, 706 S. Fielding Ave.

Fla., Tampa—Habrog Co., Inc., chartered; H. B. Rogers, S. T. DeLoach.

Fla., Venice—Mary Williams Co., Inc., capital \$10,000, incorporated; Mary W. Price, F. J. Williams.

Fla., Vero Beach—Depositors' Holding Co., Inc., incorporated; G. A. Magill, G. C. Snodgrass.

Ga., Americus—W. T. Turner, R. F. D. 5, of Roanoke, Va., reported, purchased 770 acres near here.

Ga., Brunswick—Andrews Real Estate Co., capital \$25,000, incorporated; J. L. Andrews, J. P. Davenport.

Ga., Macon—Junior Chamber of Commerce, Robt. M. Gamble, Pres., will develop 600-acre golf course; 9 holes, with ultimate expansion of 18 holes; cost \$20,000; of this \$10,000 will be available without cost in labor furnished by county and city forces; Matthew Tardy, Archt., care of C. A. McCay, Macon News Advt. Dept.; John Wilcox, Gen. Contr.; will erect \$25,000 clubhouse. See Want Section—Machinery and Supplies.

Ga., Macon—Clifford A. McKay, Chmn. of Chamber of Commerce, advises will construct 9-hole public golf course on tract of 85 acres; also construct small clubhouse with shower and lockers.

Ky., Harlan—Clyde Rice Realty Co. incorporated; Clyde Rice, V. W. Rice, B. Y. Rice.

Ky., Hazard—Laurel Realty Co. (Selling Agent), Winchester, reported, develop subdivision in A. H. Turner Property on National Highway to be known as Highland Park.

Ky., Lexington—Blue Grass Development Co., capital \$24,000, incorporated; A. W. Hardin, Louisville; Lillard T. Marshall, 101 Irvine Rd.; J. C. Hurst, 642 Central Ave., Lexington.

Ky., Lexington—Robert Meter, Paris, reported, acquired 303 acres.

La., Baton Rouge—Louisiana-Mississippi Realty Co., Inc., chartered; W. LeRoy Ward, 2337 Government St.; A. McB. Jackson, 928 Florida St.; E. Greene Davis, 634 Convention St.

La., New Orleans—Fulton Realty Co., Inc., capital \$10,000, chartered; Gladys Jene, 1217 Marigny; F. B. Barrick, Mable B. Humphrey.

La., New Orleans—Iberville Realty Co., Inc., capital \$20,000, chartered; Samuel Kunnes, Morris Kunnes, Isidore Rothschild, all 535 Iberville St.

La., New Orleans—Scheinuk & Ellis Realty Co., Inc., capital \$10,000, chartered; Edward B. Ellis, 3923 St. Chas. Ave.; Mac Scheinuk, 2602 St. Chas. Ave.

Md., Baltimore—J. Oscar Scarborough & Sons, Inc., 11 Kolb Ave., incorporated; J. Oscar Scarborough, Jr., Carl W. Scarborough.

Miss., Greenwood—Jeff G. Wilson of Shelby,

reported, purchased approximately 4600 acres.

Miss., Jackson—Chamber of Commerce, reported, interested in development of park on site of old city hall.

Miss., Macon—J. W. Fox, reported, purchased 600 acres.

Miss., Macon—J. F. Ames, reported, purchased 300 acres in Noxubee county.

N. C., Beaufort—Home Builders Realty Corp., W. T. Davis, Pres., will develop 45 acres for Highland Park Development Co.; install water, lights, sewer, sidewalk, curb and gutter; Davis Construction Corp., Gen. Contr.; Geo. J. Brooks, Constr. Engr., both Beaufort. 9-29

N. C., Charlotte—John L. Wilkinson, Chmn. of Parks Maintenance Committee, reported, interested in development of park on 20-acre tract on Wilkinson Boulevard and park in northwestern section.

N. C., Monroe—U. S. Land Co., Inc., Portsmouth, Va., will develop 140 acres land in Columbia, S. C., Monroe, N. C., Portsmouth, Va., and Greensboro, N. C., for residential sites; install water, street lights, etc.; expend \$75,000; Clodfelder & Schisler, 1711 Claremont Ave., Richmond, Va., Landscape Archt. and Constr. Engrs.; W. W. Howard, Contr., Portsmouth, Va.; A. T. Schisler, Archt., Richmond, Va. See Want Section—Machinery and Supplies. 9-29

Tex., Amarillo—C. H. Sonneborn, Mgr. of Castle Cliffs, reported, develop park in Castle Cliffs; construct 2 artificial lakes, five tennis courts, 2 playgrounds, shelter houses, outdoor theater, etc.; besides 50-acre park, there will be 30 acres in smaller park tracts and 225-acre golf course will adjoin subdivision; Hare & Hare, Landscape Archts.; also improving subdivision.

Tex., Brazoria—Gulf Oil and Sulphur Co., reported, developing townsite 6 miles south of here will shell streets and sidewalks.

Tex., Corsicana—I. J. Willingham, reported, constructing golf course; also erect clubhouse.

Tex., De Leon—H. G. Wallace will develop 46 acres in English walnuts, grapes, persimmons, pecans, etc.; will erect residence, poultry house, hog houses, etc. See Want Section—Miscellaneous.

Tex., Fort Worth—Van Pelt Farm, Inc., incorporated; Gaylor J. Stone, D. H. Van Pelt, 1801 Hurley St.; J. B. Simpson.

Tex., Houston—Houston Land and Building Co., incorporated; C. G. Botts, 601 Stuart St.; E. H. Wessels, L. C. Wessels.

Tex., San Antonio—Avalon Country Club, Porter Loring, Pres., reported, develop sport and outing club at Spittel's Island, Medina Lake; construct \$20,000 club, golf course, airplane landing field, polo grounds, tennis courts; develop 1600 acres; construct macadamized roads.

Tex., Weslaco—Delta Development Co., capital \$150,000, incorporated; E. C. Couch, W. L. Forbes, V. M. Stephen.

Va., Amherst—Amherst Realty Corp., capital \$50,000, incorporated; W. W. Hill, A. R. Watts.

Va., Hopewell—T. A. Burford is developing Sunnyside Park, 30 acre subdivision; is grading streets, installing electric lights, will erect dwellings; Clodfelder & Schisler, Engrs. and Landscape Archts., 923 E. Main St., Richmond and Hopewell, in charge of engineering work.

Va., Hopewell—M. T. Broyhill, Inc., Elder Bldg., are developing Crescent Hills, suburb of 32 acres; installing water, electric lights, grading streets; will surface streets with some form of paving; Clodfelder & Schisler, Engrs., Richmond and Hopewell.

Va., Newport News—Read & Goldberg, capital \$15,000, incorporated; I. M. Goldberg, 2903 Madison Ave., R. W. Read, Hays Apt., S. H. Goldberg.

Va., Richmond—Westham Ridge Corp., capital \$50,000, incorporated; Fred E. Nolting, 907 E. Main St.; L. K. Hoxton, E. B. Thomson, Mutual Bldg.

Lumber Enterprises

Ala., Aliceville—Rush Lumber Co., Florida Ave., Memphis, Tenn., reported, acquired entire holdings of Russell Lumber Co. consisting of band mill and timber land; J. S. Moore, in charge of mill and operation.

Fla., Odessa—Grove-Dowling Hardwood Co., incorporated under laws of Florida in 1926 to succeed business of the Dowling Co., Odessa, and to acquire properties of late E. W. Grove, 4361 Westminster St., St. Louis, Mo., and Gulf Hammock, Florida; offering \$1,750,000 first (closed) mortgage 6½% sinking fund serial gold bonds through Peabody, Houghteling & Co., New York, and A. G. Becker & Co., New York; proceeds of issue will be used to reimburse treasury of com-

pany for capital expenditures and to provide additional working capital; second unit of crate mill, which will double capacity, is expected to be in operation soon. 6-16

La., Houma—Houma-Terrebonne Lumber Co., Inc., capital \$100,000, chartered; Emil Sundbery, Napoleonville; H. A. Cook, O. C. Sundbery, both Houma.

La., Lake Charles—Krause & Managan Lumber Co., S. Ryan St., reported, plans reforestation, establish nursery to grow from 600,000 to 750,000 trees from seed; also plans about 300,000 slash and loblolly pine trees in area on which reforestation will be conducted.

Miss., Hermanville—Hermanville Planing Mill Co. acquired 40 acre site to install planing mill, also expect to operate number small mills within radius of 10 to 15 miles.

Miss., McComb—J. H. Totten, of Totten Veneer and Lumber Co., reported, rebuild plant, burned at loss of \$150,000.

Miss., Yazoo City—Gooch Brothers Lumber Co., capital \$25,000, incorporated; Eugene Gooch, W. M. Gooch, Rose Gooch.

Mo., St. Charles—C. J. Harris Lumber Co., 301 N. Second St., reported, plans erecting building corner Monroe St.

N. C., Hillsboro—Hillsboro Mfg. Co., capital \$20,000, incorporated; A. Max Browning, P. C. Collins, A. H. Graham.

S. C., Rock Hill—King C. Tolles Lumber Co., capital \$12,500, incorporated; King C. Tolles, Mary O. Tolles, Eva Mae White.

S. C., Springfield—Edisto Hardwood Co., capital \$25,000, incorporated; J. B. Guess, Jr., P. D. Bule, B. T. Brinkley.

Tex., Houston—E. E. Stone Lumber Co., 3100 Commerce St., increased capital \$25,000 to \$35,000.

Metal-Working Plants

Tex., San Antonio—Acme Wire and Iron Works, 1601 N. Laredo St., reported, plans erecting 1-story, 60x90-ft. building; galvanized iron frame; Adams & Adams, Archts., Builders Exchange Bldg.

Mining

N. C., Hendersonville—Golden Valley Gold Mines, Inc., capital \$100,000, chartered; Wm. R. Kirk, E. G. Crews, Charles M. Levett.

Miscellaneous Construction

Ala., Birmingham—Memorial Monument—Birmingham Post No. 1, American Legion, reported, plans memorial arch at south end of stadium, Legion Field; D. O. Whildin, Archt., 515 N. 21st St.

D. C., Washington—Swimming Pool—G. G. Loehler Co., Franklin National Bank Bldg., awarded contract for bath house and swimming pools on grounds of McKinley High School, Third and T St., N. E. 9-22

Fla., Key West—Application of the Wharf and Warehouse Corp., of Key West, to construct wharf, slips and dry dock in harbor, reported approved by the War Dept., permit includes commercial dock, etc. on shore line between Elizabeth and Williams St. and includes right to dredge necessary channels, etc.; Robert M. Thompson, 10 E. 43rd St., New York City, interested in project.

Mo., Perryville—Levee—Northern Mississippi River Comn. District Engrs., Room 435, Customhouse, St. Louis, Mo., receives bids Oct. 11 for levee work in Perry County. See Want Section—Bids Asked.

N. C., Winston-Salem—Incinerator—Board of Aldermen interested in purchase of 20-acre site on Lime St., between Glenn Ave. and Twenty-fifth St., for additional unit to incinerator plant; contemplates bond issue; Harry Shaner, Commr. Public Works.

Okla., Shawnee—Mausoleum—Seth Williams, reported, let contract to F. E. Watson, Ardmore, to erect mausoleum building, reinforced concrete and stucco, contain 500 crypts; J. I. Davis, Archt., First Natl. Bank Bldg., Oklahoma City.

Okla., Sulphur—Lake—See Miscellaneous Enterprises.

Tex., Amarillo—Lakes—See Land Development.

Tex., Lubbock—Elevator—Jones Hettessater Construction Co., Mutual Bldg., Kansas City, Mo., reported, has contract for 340,000 bu. capacity grain elevator for the J. C. Whaley Interests; elevator will have ten bins, headhouse 20x36-ft., 176-ft. high; install modern facilities for loading, dumping, etc.; estimated cost \$150,000.

Va., Hopewell—See Miscellaneous Enterprises.

Va., Richmond—Incinerator—Director Public Works, R. Keith Compton, receives bids Nov. 10 to furnish and install garbage incinerator. See Wants Section—Bids asked.

Miscellaneous Enterprises

Ala., Mobile—Barnes-Creary Supply Co., 14 N. Commerce St., reported, acquired Dixie Packing Co.'s plant at Neely Station on St. Stephens Rd.; interested in operating plant for handling shrimp, oysters, vegetables, fruits, etc.

Ala., Selmer—Kraft Cheese Co., 402 Rush St., Chicago, Ill., reported, contemplates establishing plant.

Ala., Tuscaloosa—Chamber of Commerce interested in promoting milk condensing plant; reported, preliminary survey being made.

Ark., Berryville—W. I. Bodine, Mgr. Bodine Ice Machine Co., Springfield, Mo., reported, plans establishing creamery.

Ark., El Dorado—Wallace B. Johnson, reported, acquired Rose Ice and Ice Cream Co., 700 North West Ave.; remodel and make additions; change name to Johnson Dairy Co.

Ark., Little Rock—National Sanitary Food Machine Co., Inc., G. D. Huddleston, Pres., Glover Bldg., increased capital \$50,000 to \$250,000.

D. C., Washington—Potomac Ferry Co., capital \$250,000, incorporated; Wm. W. Werback, Chas. M. Mundle, both Washington, D. C.; Richard P. Hutchins, Wayside, Md.

D. C., Washington—Grand Palace Parlors, Inc., capital \$50,000, chartered; Michael Rinaldi, 1403 H St. N. W.; Leo Rinaldi, 735 Princeton St. N. W.; Nick Corvelli.

Fla., De Land—Ox Fiber Brush Co., New York City, reported, establishing plant for extraction of fiber from palmettoes; propose 13 buildings, two now under construction, install special machinery, concrete floors, skylights for lighting, to be completed about the first of year; L. V. Bean, Bainbridge, Ga., in charge of construction work; W. M. Killingsworth, Supt. of plant; employ between 60 to 75 persons.

Fla., Jacksonville—Coral Rock Ginger Ale Co., incorporated; H. M. Burch, M. M. Thomas.

Fla., Lakeland—Venable's Market, Inc., capital \$25,000, chartered; F. W. Pope, 829 S. Success Ave., T. B. Hendrix, 216 E. Oak St.; W. H. Venable.

Fla., Miami—Merchandise—Opportunity Gift Shop, Inc., incorporated; Adalyn Ross, Leo Ackerman, Olympia Bldg.

Fla., Miami—Sea Foods—Tropical Packing Co., capital \$10,000, incorporated; Isadore J. Cohn, Max Swart.

Fla., Panama City—Fred Kronmiller and Eugene Shiffert, reported, establish cigar factory.

Fla., Punta Gorda—Merchandise—Pate-Rickard, Inc., incorporated; H. M. Pate, Thomas J. Ellis.

Fla., Sarasota—Florida Fish Products Corp., 130 N. Pineapple Ave., will erect 81x82-ft. plant, masonry construction, concrete floors, composition roof, day labor under direction of C. F. Brown; install \$12,500 machinery, portion of which will probably be supplied by A. K. Robins & Co., Market Place, Baltimore, Md.; J. J. Murphy, Inc., Sarasota, electric work; daily output 1000 cases of canned fish, fruits and vegetables. See Wants Section—Machinery and Supplies. 9-29

Fla., St. Petersburg—Medicines, Drugs, Chemicals—Tropical Medicine Co., incorporated; F. V. Blair, E. 836 16th Ave. N.; Florence Blair.

Fla., Tampa—J. A. Stevens, publisher of Daily Record, reported, acquired plant of Tampa Evening Journal, Ross and Nebraska Ave.

Ga., Atlanta—Tri-State Culvert Manufacturing Co., 491 S. Second St., Memphis, reported, erect 1-story, steel manufacturing plant at 880 Glenwood St.

Ga., Atlanta—American Bakeries Corp., Healey Bldg., incorporated in Florida, reported, acquired all outstanding stock of American Bakeries Co. operating 16 plants in Atlanta, Birmingham and other South-eastern cities; R. C. Thompson, Pres.; Lewis M. Collins, Sec.; Harry A. Binford, Treas.; capital consists of slightly less than \$2,100,000 of preferred stock now issued in addition to \$595,000 par value of preferred stock, which is reserved for exchange for like amount of preferred stock of the old company and slightly less than 58,000 shares of Class A stock and 90,000 shares of Class B stock; main office to remain in Atlanta. 9-29

Ga., Columbus—Southern Cover Co., 1303 First Ave., organized, Henry Morton and others; establish plant to manufacture automobile seat covers.

Ga., Nashville—Red Devil Spraying Machine Co., capital \$100,000, chartered; L. R. Gaskins, H. C. Powell, Clem Harris, establish plant to manufacture spraying machines, spraying fluids and compounds; has site for factory.

Ga., Savannah—DeLoach Apartments, Inc., capital \$120,000, chartered; I. O. DeLoach, L. M. DeLoach, L. W. Williams.

Ga., St. Marys—Brooks Packing Co., Fernandina, Fla., erecting plant for packing of shrimp; cost \$12,000; lumber furnished by Walter-Lang Lumber Mill, St. Marys.

Ky., Barbourville—Blackstone Hotel Co., incorporated; A. D. Smith, Tryphena Smith, Anna Mae Ingram.

Ky., Louisville—Weber Drug Co., capital \$15,000, incorporated; Ben Weber, 104 Hughes Court; Wm. E. Weber, 1810 Bardstown Rd.; Ida Weber.

La., Hodge—Ingalls Iron Works Co., 20 Avenue D, Birmingham, Ala., reported, has contract for 650 tons structural steel for plant of Southern-Advance Bag and Paper Co. 6-23

La., New Orleans—Industrial Armature Corp., St. Charles and St. Joseph Sts., reported, plans rebuilding burned portion plant. 9-29

La., New Orleans—Trunks, Suit Cases, etc.—Gertler & Goldbery, Inc., capital \$10,000, chartered; L. Gertler, 1729 Seventh St.; R. Robbins, 2207 Baronne St.; I. Goldberg, 1763 Jackson St.

La., New Orleans—Salzer Plumbing Co., Inc., capital \$20,000, incorporated; Alfred R. Salzer, John Salzer.

La., McDonoghville—Amusement Parks—Metairie Greyhounds Racing Assn., Inc., capital \$15,000, chartered; A. Roupich, Dr. M. M. Odum, Wm. H. Ward, 429 Patterson St.

La., New Orleans—Laborde Mercantile Co., Inc., capital \$10,000, chartered; Geo. A. Laborde, Alvin H. Lochte, 28 Neron Place; W. A. Laborde, 2409 Magazine.

La., Shreveport—Southern Cone Manufacturing Co., Inc., 1122 Marshall St., capital \$12,000, chartered; T. B. Carpenter, 444 Kings Highway, and others.

La., West Monroe—West Monroe Hardware and Furniture Co., Inc., capital \$50,000, chartered; H. W. Colbert, Loop Rd.; P. M. Atkins, 520 River front; J. G. Durett.

Md., Baltimore—Baltimore Chewing Gum Co., Wm. A. Goetze, 1612 Ashland Ave., acquired building on Monument St. near Eighth, make improvements, install high-pressure boiler.

Md., Baltimore—Charles Street Floral Shop, Inc., 920 N. Charles St., incorporated; Bascom D. Linney, George J. Goyert, 2733 Riggs Ave.; Mrs. Jennie Bryant, 4802 Homer Ave.

Md., Baltimore—Fairfield Farms Dairy Co., Inc., let contract to Charles L. Stockhausen Co., Inc., Commerce and Water St. for construction new plant buildings at Front, Exeter and Colvin Sts., 3-story, concrete, brick and steel, with 186-ft. frontage on Colvin St., double capacity present plant, plans also include additional story to office building; estimated cost \$300,000; work to be completed in about one year; The McCormick Co., Inc., Architects, 121 S. Negley St., Pittsburgh, Pa.

Md., Baltimore—Advertising—MacDonnold Co., 616 Radnor Ave., incorporated; Linn D. MacDonnold, 616 Radnor Ave.; Estelle M. Brown, Philip Libowitz, 2024 E. Fayette St.

Md., Baltimore—Baltimore Horticultural Supply Co., Box 750, incorporated; John H. Owings, William A. Owings, 126 Spalding Ave.; Philip H. Close.

Md., Baltimore—Kitchen Utensils—Hygiene Aluminum, Inc., 10 S. Hanover St., incorporated; Harry S. Fisher, Max Levy, Henry Klask.

Md., Baltimore—Sanitary and Cleaning Materials—Royal Products Co., 506 Light St., incorporated; Lewis S. Elmer, Francis X. Manning, Martha C. Elmer.

Md., Salisbury—Webb & Co., O. R. Carver, in charge, Crisfield, reported, establish meat packing plant on Truitt Rd.; M. P. Burt, Engr., Falls Bldg., Memphis, Tenn.; soon receive bids.

Md., Salisbury—Salisbury Furniture Co., incorporated; Thomas J. Truitt, L. Jane Truitt, Ruth A. Truitt.

Mississippi—Kraft Cheese Co., 402 Rush St., Chicago, Ill., reported, plans establishing cheese plants at Wesson, Houston and Water Valley, Miss. 9-29

Mo., Lebanon—Laclede County Farmers Assn., reported, interested in establishing creamery plant.

Mo., Ozark Beach—Ozark Beach Resort Co., capital \$70,000, chartered; N. T. Crist, Ozark Beach; Emma Quinn, 726 Elm St., Springfield; Ella Crist.

Mo., Poplar Bluff—W. J. Owen of the Coca-Cola Bottling Works, reported, plans building plant on Oak St.

Mo., Seymour—J. D. Delp of the Queen City Dairy Co., Springfield, reported, plans establishing cheese factory.

Mo., St. Louis—Lyric Shoe Co., 305 Colnols St., capital \$20,000, incorporated;

Ralph W. Kanefield, Joseph Buchman, John Buchman, 4344 Page St.

Mo., St. Louis—Grace Sign and Manufacturing Co., Paul R. Grace, Pres., 3601 S. Second St., will erect plant addition, 1-story, 75x200-ft. plant; cost about \$75,000; brick, steel sash, cement floor, tar & gravel roof; Wm. H. and Nelson Cunliff Co., Contrs., 410 N. Euclid Ave.

N. C., Asheville—Asheville Nugrape Bottling Co., capital \$100,000, incorporated; Mary Elizabeth Yowell, G. H. Daniel, both Asheville; C. H. Klutz, Salisbury.

N. C., Asheville—Scruggs Drug Store, capital \$50,000, incorporated; R. G. Scruggs, 124 Montford Ave.; W. M. Salley, 81 Houston St.; Zeb. V. Nettles, Jackson Bldg.

N. C., Azalea—Rugs, Carpets, etc.—Mountain Handcrafts, Inc., capital \$100,000, incorporated; F. E. Peckham, Isabel Peckham, A. M. Masich.

N. C., New Bern—New Bern Fur and Hide Co., capital \$25,000, incorporated; M. L. Jacobs, M. M. Sultan, N. Frank.

N. C., Durham—Undertakers—Ray & Allen, 207 E. Chapel Hill St., capital \$100,000, chartered; J. Hubert Allen, 213 Haywood St.; Johnson H. Ray, Fayetteville Road; Mary Ray.

N. C., Goldsboro—Mavis Bottling Co., capital \$50,000, incorporated; Tabitha C. Hutaff, Mildred E. Hutaff, Castle Hayne Rd., G. H. Hutaff, Jr., 617 Market St., all Wilmington.

N. C., Greensboro—Mercantile—Scarboro & Co., capital \$100,000, incorporated; J. M. Scarboro, 512 Fifth Ave.; Ellen Scarboro, W. V. Joyce.

N. C., Greensboro—Southern Junk and Hide Co., 238 S. Davis St., capital \$500,000, incorporated; Max Temko, 226 S. Ashe St.; Herman Davidson, both Greensboro; Robert J. Waggoner, High Point.

N. C., Greensboro—Southern Junk and Hide Co., 238 S. Davis St., capital \$50,000, incorporated; Max Temko, 226 S. Ashe St.; Herman Davidson, 808 McGee St., both Greensboro; Robert J. Waggoner, High Point.

N. C., Greensboro—Mercantile—Scarboro & Co., capital \$100,000, incorporated; J. M. Scarboro, 512 Fifth Ave.; W. V. Joyce, Ellen Scarboro.

N. C., Kannapolis—East Side Grocery, capital \$10,000, incorporated; C. C. Cox, Charles Simpton, H. E. Widenhouse.

N. C., Lexington—B. and B. Steam Laundry, capital \$25,000, incorporated; H. L. Koontz, Greensboro; Crawford Swing, James A. Bangle both Lexington.

N. C., Rocky Mount—W. H. Draper & Sons Co., capital \$100,000, incorporated; A. L. Draper, E. E. Draper, both Troy; R. L. Ruffines, Rocky Mount.

N. C., Salisbury—Purcell Drug Co., capital \$50,000, incorporated; S. M. Purcell, C. L. Murphy, Margaret K. Murphy.

N. C., Wallace—Mercantile Business—Chas. Teachey & Son, Inc., capital \$25,000, chartered; Chas. Teachey, Rose Hill; Joseph D. Teachey, Wallace.

N. C., Wilmington—Shirts—Southland Co., William Block, Pres., Nut and Water St. reported, will reopen plant in about 2 weeks, equipment ordered; burned at loss of \$100,000.

N. C., Winston-Salem—Carolina Steel and Iron Co., S. Elm St., Greensboro, N. C., are furnishing about 1000 tons structural steel for new warehouses for R. J. Reynolds Tobacco Co. 6-2

Okla., Sulphur—O. L. Lacy, reported, acquired 322 acres in North Sulphur; plans developing amusement and recreational park, utilize 100 acres for artificial lake.

Okla., Tulsa—General Roofing & Material Co., capital \$10,000, incorporated; A. Ayers Barnes, R. F. Wade, 2327 E. Fourth St.

S. C., Gaffney—Plumbing—T. J. Cagle, reported, let contract to L. Baker for building on E. Birnie St., 21½x81-ft., brick, plate glass front, excavation by J. H. Curry; brick work by Josh Beam.

Tenn., Bristol—Kraft Cheese Co., 402 Rush St., Chicago, Ill., reported, plans establishing cheese plant.

Tenn., Chattanooga—Hamilton Home Corp., capital \$50,000, chartered; R. S. Jeffries, C. M. Willingham, 633 Vine St.; Frank C. Darwin.

Tenn., Fayetteville—Borden Southern Co., Inc., main office 350 Madison Ave., New York City, let contract to H. K. Ferguson, Hanna Bldg., Cleveland, Ohio, for 28x42-ft. plant addition, steel frame, concrete floor, brick walls, cost about \$10,000. 12-9-26

Tenn., Knoxville—Nelson Mosely Drug Co., incorporated; C. O. Nelson, H. B. Mosely, L. V. Bishop.

Tenn., Memphis—Insecticides—Radiant

Products Co., reported, leased building at W. Olive Ave. on Riverside Blvd. now under construction; contains 12,000 sq. ft. floor space; Joe T. Wallace, Archt., Bank of Commerce Bldg.

Tenn., Nashville—Cosmetics, etc.—Clark Chemical Co., Stahlman Bldg., capital \$20,000, incorporated; Frank M. Nevins, G. B. Cloverdale, C. W. Wright.

Tenn., Nashville—Jersey Farms Milk Service, 720 Fourth Ave., capital \$30,000, organized, D. W. Binns, Pres., reported, acquired plant of Jersey Farms Milk Co.; remodel, install most modern equipment and machinery.

Tex., Dallas—Gulf Building Co., incorporated; G. Audrey Harding, Mayer L. Harris, 710 Rice St., L. W. Harris.

Tex., Dallas—Avondale Pharmacy, Inc., 4127 Oak Lawn, capital \$20,000, chartered; G. J. Dorsa, 6130 Palo Pinto; J. L. O'Field, Fred Appel.

Tex., Edinburg—Hicks Rubber Co. of Edinburg, Inc., incorporated; R. L. Lewis, E. L. Lewis, R. A. Lewis.

Tex., Fort Worth—Children's Clothing Co., capital \$10,000, incorporated; W. S. Slay, J. L. McMenene, E. C. Manning, 1719 Sixth Ave.

Tex., Gainesville—Johnnie Neilson, City Sec., receives bids Nov. 8 for fire-fighting equipment. See Wants Section—Bids Asked.

Tex., Greenville—Middleton Bryan Cotton Co., capital \$10,000, incorporated; John N. Middleton, W. B. Bryan, V. G. Rannion.

Tex., Houston—Louis G. Hester, First Natl. Bank Bldg., has contract to furnish metal windows and doors for building of Houston Press, at Rusk and Emanuel Sts. 8-4

Tex., Houston—Gulf Publishing Co., 1716 Dallas St., reported, let contract to Don Hall, Cotton Exchange Bldg., at \$68,400 for construction new publishing plant on Buffalo Drive; 2-story reinforced concrete, tile, stucco and cast stone; plumbing to Geo. J. Robischung, Inc., 1609 Congress Ave., electric work to Jacob Bros. Electric Co., 1014 Prairie Ave., gas-steam heating system, Frank H. Bennis; W. D. Haden Co., 2315 Polk St., furnish stone tile; Hedrick & Gottlieb, Inc., Archts., Post Dispatch Bldg. 9-29

Tex., Houston—Mattresses—Usatex Manufacturing Co., Frederick Parker, Owner, 1110 N. Main St., reported, acquired site on Vine St., plans erecting plant, probably next year.

Tex., Houston—Paints, etc.—The A. C. Horn Co. of Texas, Preston and Dowling Sts., increased capital, \$30,000 to \$60,000.

Tex., Houston—W. D. Haden Co., (shell, sand and cement Contrs.), 2315 Polk St., Galveston, Tex., reported, acquired 27 acre site on Greens Bayou, plans establishing unloading plant.

Tex., Houston—City. O. F. Holcombe, Mayor, receives bids Oct. 12 for fire-fighting equipment. See Want Section—Bids Asked.

Tex., Houston—King Trunk Factory, incorporated; J. Saper, 1305 Isabelle St.; Gustaw E. Saper, Ernest H. King.

Tex., Houston—Lamar Hotel Co., capital \$10,000, incorporated; N. E. Meador, Goggan Bldg., F. J. Heyne, Goggan Bldg., R. B. Carter, 3610 Mt. Vernon.

Tex., Houston—Worth Hotel Co., capital \$10,000, incorporated; John T. Jones, 3815 Montrose St., N. E. Meador, both Goggan Bldg.

Tex., Jasper—E. C. Burris and associates interested in establishment of laundry.

Tex., Liberty Hill—J. H. Kavanaugh, Lometa, reported, acquired paper at Liberty Hill, will publish.

Tex., Mercedes—See Ice and Cold Storage Plants.

Tex., Palestine—J. W. Eadley, Mexia, reported, plans establishing hatchery.

Tex., San Antonio—Gallagher Ranch Co., capital \$10,000, incorporated; V. H. McNutt, 1929 San Pedro St., Amy McNutt, Pete Crawford.

Tex., San Antonio—Texas Construction and Development Co., capital \$20,000, incorporated; Michel Malos, Aurora Malos, Louis Peters.

Tex., Vernon—City. H. D. Hoekersmith, Mayor, receives bids Oct. 18 for installation electric traffic signals; S. I. Vaughn, City Electrician. See Want Section—Bids Asked.

Tex., Wichita Falls—Naylor-Collins Co., 3000 Grand St., reported, has contract for erection Kraft cheese factory corner Sibley and Broad St.; cost about \$40,000; equipment to be installed by Kraft Co., 402 Rush St., Chicago, Ill., costing \$70,000 to \$100,000; Wichita Falls Dairy Products Co., organized to finance erection of building. 9-22

Va., Clarendon—North Virginian Newspaper and Printing Corp., capital \$50,000, in-

corporated; Edward R. Hagensch, Clarendon; D. M. Cone, Washington, D. C.; Dewey J. Edwards, Clarendon; will manufacture books, magazines and newspapers.

Va., Franklin—Franklin Cafe, capital \$50,000, incorporated; V. S. Mon, George Loziou, both of Franklin, Va.; Andrew Anderson, Norfolk.

Va., Hopewell—Atmospheric Nitrogen Corp., Syracuse, N. Y., subsidiary of Allied Dye and Chemical Corp., 2413 Third Ave., New York, reported, construct ship canal for plant under construction near James River. 9-29

Va., Newport News—Hotel Warwick Corp., 2400 West Ave., capital \$300,000, incorporated; J. N. Shannahan, Frank B. Lawton, L. W. Noland.

Va., Norfolk—Shulman & Co., capital \$250,000, incorporated; L. R. Shulman, Law Bldg., P. L. Barrett, 532 Penn Ave., W. R. L. Taylor, Citizens Bank Bldg.

Va., Richmond—In reference to report that the Du Pont interests will establish a wood pulp and methanol plant in the vicinity of Richmond, Va., F. J. Byrne, of Du Pont Publicity Bureau, Wilmington, wires: "No truth in reports referred to."

Motor Bus Lines and Terminals

Ky., Louisville—Eveready Bus and Tire Co., capital \$25,000, incorporated; J. A. Haysley, C. A. Meyers, John J. Size, 2310 Westst St.

Mo., Springfield—Pierce Oil Corp., 460 St. Louis St., reported, plans building terminal station for Pickwick Stages System and other bus lines, structure include waiting rooms, loading platform, restaurant, etc.; cost about \$30,000.

Tex., Fort Worth—Northern Texas Traction Co., Pine and Pacific Sts., reported, plans building, 65x92-ft., repair shop and 32x165-ft. garage for motor buses.

Va., Martinsville—Eagle Motor Lines, reported, acquired properties of Farris Bus Lines, operating between Martinsville and Roanoke, Roanoke and Danville, via Callands.

Motor Cars, Garages, Filling Stations

Ala., Anniston—Sinclair Refining Co., reported, let contract to J. A. Nunnally for filling station at Thirteenth and Wilmer Sts.

Ala., Montgomery—Woco Pep Co., Inc., capital \$50,000, chartered; H. Gardner, W. H. Sanford, 743 S. Court St., S. E. Gardner.

Fla., Arcadia—Peace Valley Motors, Inc., incorporated; C. F. Sauter, L. R. Morgan.

Fla., Sanford—Celery City Motor Co., Inc., incorporated; V. Shipp, N. V. Eubanks.

Ga., Atlanta—General Motors Corp., Detroit, Mich., and 224 W. 57th St., New York, Hugh C. Couch, special representative, reported, will purchase 5-acre site in Chosewood Park for \$5,000,000 Southern manufacturing and assembling plant to employ 1500 men; include machine shops and foundries; City Council must approve sale of municipal park for site, Myles Bradley, Detroit, wires: "Chevrolet establishing assembly plant at Atlanta, Georgia."

Ga., Waycross—T. S. Linton will erect 1-story filling station, concrete or stucco columns, stucco finished walls; to be occupied by Blackstone & Lewis. 9-29

Ky., Louisville—Coca-Cola Bottling Works, 1523-31 Bank St., has permit for \$15,000 garage at 1514 Bank St.

La., Baton Rouge—London Tire & Supply House, Inc., chartered; Harry Leon, Baton Rouge; Nathan Nerush, New Orleans.

La., New Orleans—Mack Tire Co., 832 Camp St., reported, will erect filling station, tire and repair shop cor. St. Charles Ave. and St. Andrew St.; 1-story, brick and hollow tile, electric wiring, glazing and roofing; Andry & Feitel, Archts., New Orleans Bank Bldg.

La., New Orleans—Jumbo Sales and Service Co., Inc., chartered; James H. Hinton, Wiggins, Miss.; Jas. Victory Jones, Brunswick, Ga.; M. Lawrence Chenoweth, 4227 Elk St., New Orleans.

La., Shreveport—Joe B. Stevens Motor Co., Inc., capital \$25,000, chartered; Joe B. Stevens, 1717 Highland Ave.; E. R. Hicks, Mrs. L. V. Stevens.

La., Shreveport—Jones McCann, Inc., reported, leased site, Louisiana Ave. and Crockett St., erect auto storage, filling station, etc.

Md., Baltimore—Linden Auto Radiator and Fender Co., Inc., 309 Biddle St., incorporated; Max A. Wolf, Reba Wolf, Samuel Leites.

Md., Baltimore—E. T. Newell, 213 St. Paul Place, will erect 1-story garage, individual stalls, on Biddle St., near Fallway, brick, cost about \$25,000.

Md., Baltimore—General Garage Manufacturing Co., 1912 N. Charles St., will erect

1-story, 50x75-ft., concrete block building, use for sheet metal shop; Porter Bond, Archt., 214 N. Linwood Ave.; has bids from Smith & O'Brien, 532 N. Calvert St., and Consolidated Engineering Co., 19 W. Franklin St.

Miss., Hattiesburg—Edmondson-Knight Motor Co., capital \$10,000, incorporated; J. R. Edmondson, Mrs. Eula Edmondson, B. T. Prestidge, 918 McInnis Ave.

Mo., Jefferson City—Helsing Motor Co., plans enlarging office and sales room.

Mo., St. Louis—Jerome J. Stedelin, 914 Ninth St., let contract to C. B. McCormick & Son, Columbia Bldg., for 1-story, 75x213-ft. garage; Aegerter & Bailey, Archts., Railway Exchange Bldg. 9-29

N. C., Kernersville—Mayes Motor Co., capital \$1,000,000, incorporated; B. M. Mayes, Lucy W. Mayes, H. G. Wright, all of Greensboro.

N. C., Raleigh—Capital Motor Co., capital \$25,000, incorporated; R. H. Askew, H. Eugene Wood, 525 N. Blount St., H. R. Beddingfield.

Okla., Blackwell—Turk-Kinslow Motor Co., 209 S. Main St., incorporated; A. F. Turk, C. B. Kinslow.

S. C., Columbia—Byrum Motor Co., 1300 Sumter St., increased capital; \$10,000 to \$50,000.

Tex., Clarendon—R. S. Moses, reported, will erect 65x50-ft. building for battery and electric service station; Speed Brothers and O. W. Latson have contract for concrete and brick work.

Tex., Newton—Pineda Chevrolet Co., incorporated; H. W. Millery, Wiley Newton, H. F. Fuller.

Tex., San Antonio—H. J. Shearer, 303 Mary Lou's Drive, plans garage on E. Houston St., brick and reinforced concrete; Adams & Adams, Archts., Builders Exchange Bldg.

La., Shreveport—Joe B. Stevens Motors, Inc., capital \$25,000, chartered; Joe B. Stevens, 1717 Highland Ave.; E. R. Hicks, Mrs. L. V. Stevens, all Marshall, Tex.

W. Va., Parkersburg—Geo. W. Strong, 350 7th St., reported, will erect service station on Juliana St., stone foundation, white sandstone with tile roof.

Railway Shops and Terminals

Tex., Big Spring—Texas & Pacific Ry. Co., E. F. Mitchell, Ch. Engr., Texas and Pacific Bldg., Dallas, let contract to Austin Bros., 1815 Coombs St., Dallas, to erect 42x146-ft. steel shop building with 14x62-ft. addition; replacing burned structure.

Va., Little Creek—Pennsylvania R. R., reported, let contract to Tunstall-Johnson Co., Citizens Bank Bldg., Norfolk, Va., for grading, ballasting and laying 35 miles track; including 28 mi. of yards at Little Creek and for classification yards near Norfolk, 1 mi. at St. Julien Ave. and 6 mi. connecting line from Little Creek yards into Norfolk; use 100 lb. rails; require about 300,000 cu. yds. grading; handle 100,000 cu. yds. ballast, construct several culverts, work will require about 12 months to complete; cost approximately \$1,000,000. T. J. Skillman, Ch. Engr., The Pennsylvania Railroad, Philadelphia, Pa., advises have awarded contract to Tunstall-Johnson Co., Inc., Citizens Bank Bldg., Norfolk, Va., for grading and track work from North Junction to Camden Heights and for St. Julien Ave. and Little Creek Yards, involving approximately 250,000 cu. yds. excavation and 35 mi. track. 9-2

Roads, Streets and Paving

In connection with LAND DEVELOPMENT large sums are expended for roads, streets, paving and sidewalks. Details will be found under that classification.

Proposed Construction

Alabama—State Highway Comm., Woolsey Fennell, Highway Director, Montgomery, receives bids Oct. 12 for 5 roads, 8 bridges and 3 culverts; St. Clair and Jefferson Counties—11.75 mi. grading and draining, between Cook Springs and Leeds, 268,500 cu. yd. excavation, 84,000 lb. reinforcing steel in culverts, 2 underpasses; Sumter County—174,000 sq. yd. bituminous macadam, penetration method, between Livingston and Mississippi State line, via York and Cuba; Walker County—196,000 sq. yd. bituminous macadam, penetration method, between Jefferson County line and Jasper; Dallas County—10.676 mi. gravel, between Orrville and west end of Federal Aid Project No. 169-A; 153,057 cu. yd. excavation, 30,012 cu. yd. gravel surfacing, 121,720 lb. structural steel; Lowndes County—3 bridges on road between

Willing and Wilcox County line, 1 structural steel I-beam span, concrete floor.

In Coosa County—225-ft. concrete girder bridge and approaches over Hatchet Creek, between Goodwater and Sylacauga, 17,000 cu. yd. excavation; Houston County—3.24 mi. sand clay road, between bridge under construction over Chattahoochee River, near Alaga, and end of Federal Aid Project 170-A, 25,201 cu. yd. excavation and borrow, 11,340 cu. yd. sand clay, 28,000 lbs. deformed bar reinforcement; Colbert County—6 bridges and culvert on road between Tusculum and Margerum; bridge over Buzzard Bay, 130-ft. steel span, twelve 19-ft. treated timber approach spans; double 10x9 concrete culvert over Mulberry Creek; triple 10x13 culvert over Tanyard Creek; bridge over Caney Creek, two 54-ft., one 65-ft. I-beam spans; bridge over Little Bear Creek, five 34-ft. concrete deck girder spans; one double 10x10 culvert; bridge over Spring Creek, five 30-ft. girder spans; plans on file; W. A. McCalla, State Highway Engr.

Ala., Birmingham—City Comm., Eunice Hewes, Clk., plans expending \$21,750 to pave Fortlie St., Ensley, Pike to Warrior road; A. J. Hawkins, City Engr.

Ala., Birmingham—City Comm., Eunice Hewes, Clk., receives bids about Dec. 1 for 4,700 sq. yd. sheet asphalt or bitulithic paving, 6-in. concrete base, 2,700 lin. ft. concrete curb and gutter, 600 sq. yd. walk; A. J. Hawkins, City Engr.

Ala., Jasper—Walker County Board of Revenue, E. W. Long, Judge of Probate, receives bids Oct. 17 for 17,000 cu. yd. rd. rock on Nauvoo Road, between Carbon Hill and Nauvoo, and Russellville Road, between Nauvoo and Jasper; plans on file.

Ala., Montgomery—City Comm., receives bids Oct. 11, for 1/4 mi. surfacing, probably asphalt, on Jackson St., High to Jefferson; J. M. Garrett, City Engr.

Ark., Arkadelphia—Paving Dist. No. 4, Frank Gerig, Engr., receives bids Oct. 18 for 65 blocks street paving in district.

Ark., Fort Smith—City Comm., J. H. Parker, Mayor, plans street paving, cost \$275,000. See Financial News—Bond Issues Proposed.

Ark., Paris—Board of Commrs., Street Improvement Dist. No. 1, J. J. Wallace, Chmn., receives bids Oct. 9 for 60,000 sq. yd. concrete, asphalt or brick paving; Ford & McCrea, Engrs., Gazette Bldg., Little Rock.

D. C., Washington—Dist. Commrs. plan resurfacing 76 macadam roadways, totaling 23 mi. with stone chips and tar; cost about \$20,000; Capt. H. C. Whitehurst, Asst. Engr. Commr.

Fla., Bartow—State Road Dept., Fons A. Hathaway, Chmn., Tallahassee, considering 2 roads in Polk County: State Road No. 17, Lakeland to Auburndale; State Road No. 2, Fort Meade to Hardee County line; J. L. Cresap, State Highway Engr.

Fla., Daytona Beach—City, Walter A. Richards, Mgr., plans expending \$60,000 for additional improvements: Widen Palmetta Ave. to 40 ft., Bay St. to Live Oak Ave.; repair or lay sidewalks on Grandview, Live Oak and Volusia Ave., and Beach St.; repair section of Second Ave.; install water service lines and sewerage; C. R. Teaff, City Engr.

Fla., Fort Lauderdale—City, Glenn E. Turner, Clk., plans expending \$80,400 to improve 16 streets, including S. W. First Ave., Osceola, E. Las Olas Blvd.

Fla., Fort Meade—City Comm., plans several miles street paving, including lateral streets one block south of Broadway, and one block north from Broadway. Address City Clk.

Fla., Hollywood—City Comm., plans expending \$1,000,000 for improvements including many miles of sidewalks and streets.

Fla., Orlando—City plans sidewalks on several streets, including Bambroo, Conway road, Cherokee Drive. Address City Clk.

Fla., Pensacola—City Comm., Mayor Bayliss, plans paving Garden St. from end of present paving to G St., and G St., Garden to Belmont.

Fla., Pensacola—Escambia County Comm., plans expending \$150,000 toward grading Scenic Highway.

Fla., St. Petersburg—City Comm., authorized paving 40-ft. wide North Shore Drive, between Thirteenth and Eighteenth St.; Ernest Kitchen, Director of Public Works, will receive bids soon.

Ga., Atlanta—Fulton County Commrs. plan paving Peters St., Walker to Park St.

Ga., Ocala—City, John A. Henderson, Clk., receives bids Oct. 18 for 31,884 sq. yd. reinforced concrete or asphaltic paving; 12,200 lin. ft. combined concrete curb and gutter, 6680 sq. yd. two course concrete sidewalks, 3356 lin. ft. 12 to 24-in. sewer pipe; 19 catch basins, 8 manholes; plans on file, and from

O. H. Lang, Consult. Engr., Moultrie, Ga.; Otto Griner, Mayor.

Ga., Waycross—City Comm., W. E. Lee, Clk., receives bids Oct. 4 for 14,000 sq. yd. 1 1/2-in. asphalt top on present brick pavement; plans from W. B. Stovall, City Mgr.; M. G. Brinson, City Engr.

Kentucky—State Highway Dept., Frankfort, received low bids for 6 roads: Bell County—4 mi. Middlesboro-Pruden Road, A. J. Wardrop, 409 W. Clinch Ave., Knoxville, Tenn., \$23,842, macadam; F. W. Graham, Pineville, \$20,180, sandstone; \$23,364, limestone; \$25,320, river gravel; 3.841 mi. Pikeville-Clear Creek; F. W. Graham, \$14,666, macadam; \$12,310, sandstone; \$14,372, limestone; \$15,650, river gravel; Greenup County—4.564 mi. grade and drain, Greenup-Fullerton Road, Carl L. Lewis, Covington, \$54,550; 3.448 mi. grade and drain, Greenup-Fullerton Road, Hunt-Forbes Construction Co., Ashland, \$67,897; Laurel County—13.106 mi. London-Manchester, Alex. Dunn, Corbin, \$81,693, timber base; Wilmore Construction Co., Wilmore, \$118,182, concrete base; Magoffin-Johnson Counties—14.2 mi. Salyersville-Paintsville Road, Wilmore Construction Co., Wilmore, \$69,921, sandstone; Ashland Supply Co., \$121,066, river gravel; \$114,017, slag gravel; \$114,759, macadam.

Ky., Owensboro—Davies County Commrs. plan extending Veach road 1.3 mi. southward, from point near Country Club.

Ky., Paducah—City, J. N. Bailey, Mayor, plans street extension and paving in new annexed territory, cost \$150,000. See Financial News—Bond Issues Proposed.

Louisiana—Louisiana Highway Comm., Frank T. Payne, Chmn., Baton Rouge, received low bids for 2 roads: Washington Parish—6.542 mi. gravel Sun-Bogalusa-Mississippi State Line Highway, Moody & Stewart, Poplarville, Miss., \$42,954; Lafourche Parish—13.103 mi. Cut Off-Golden Meadow Highway, W. C. Perry, Baton Rouge, \$27,468.

La., Benton—Louisiana Highway Comm., Frank T. Payne, Chmn., Baton Rouge, receives bids Oct. 18 to furnish gravel and build 14.751 mi. Bossier City-Arkana Highway, Bossier Parish, from Fifth St., Benton, through Alden Ridge, to Palm Dealing; plans on file: Nicholls W. Bowden, State Highway Engr.

La., Convent—Louisiana Highway Comm., Frank T. Payne, Chmn., Baton Rouge, may receive bids in Dec. for highway between Thibodaux and Lusher, St. James Parish; Nicholls W. Bowden, State Highway Engr.

La., Lake Arthur—City plans expending about \$17,000 to pave 7 or 8 blocks in business section; Merrill Bernard, Engr.

La., Natchitoches—Louisiana Highway Comm., Frank T. Payne, Chmn., Baton Rouge, receives bids Oct. 20 to furnish gravel and build 7.20 mi. Creston-Saline Highway, Natchitoches Parish, from end of gravel road at Bienville-Natchitoches Parish line to Chestnut; plans on file; Nicholls W. Bowden, State Highway Engr.

La., New Orleans—City plans receiving bids for paving 67 streets, totaling 44 miles: 23 mi. asphalt; 21 mi. gravel and hard surfacing; approximate cost \$500,000; will sell bonds. Address City Clk.

Maryland—State Roads Comm., Baltimore, receives bids Oct. 11 for 2 roads: Montgomery County—11 mi. concrete, along Sixteenth Street-Baltimore Blvd., Cont. M-86; Wicomico County—3 mi. concrete, Sharptown to Delaware State Line, W-45; John N. Mackall, Chmn.; J. L. Stuart, Sec.

Md., Baltimore—Board of Awards receives bids Oct. 12 to grade, curb and pave with 3180 sq. yd. sheet asphalt, on concrete base, streets in Cont. No. 438; Nathan L. Smith, Acting Highways Engr.; B. L. Crozier, Ch. Engr.; Wm. F. Broening, Mayor.

Md., Baltimore—Board of Awards, A. M. Denhard, Register, receives bids Oct. 12 to improve streets around Western High School: Gwynns Falls Parkway, Pulaski St., Warwick and Wheeler Aves.; plans from H. G. Perring, Supv. Engr.; B. L. Crozier, Ch. Engr.; Wm. F. Broening, Mayor.

Md., Baltimore—Board of Estimates approved plans for paving Belmont Ave., Garrett to Robb; Dickey Place, Guilford to Holiday; Garrett Ave. Twenty-fifth to Exeter Hall Ave.; west drive of Gay St., Fayette to Lexington; cost \$15,400; Wm. F. Broening, Mayor.

Miss., Ashland—Benton County Board of Supvrs. plan receiving bids soon for 19 mi. road, across northern part of county, from Tippah County line, west of Walnut, toward Marshall County line.

Miss., Brookhaven—City, Perry A. Coker, Clk., receives bids Oct. 18 for 14,450 sq. yd. 2-in. Warrenite bitulithic pavement, with necessary curb and gutters, excavation, cop-

per water connections, sewer laterals, etc.; plans on file.

Miss., Grenada—Grenada County Board of Supvrs. receives bids Oct. 14 for 10 mi. grading, between Grenada and Calhoun City; plans from State Highway Dept., H. C. Dietzer, Engr.

Miss., Meridian—Lauderdale County Board of Supvrs. receives bids Oct. 26 to furnish gravel and build 7.948 mi. Federal Aid Project No. 192-A, being part of State Trunk Road, between Meridian and Philadelphia; 74,614 cu. yd. mixing clay and gravel; 24,957 tons sand clay and washed gravel; plans from Chancery Clk. and H. C. Dietzer, State Highway Engr., Jackson.

Miss., Natchez—City, L. A. Whittington, Mayor, considering completing street paving.

Miss., Vicksburg—Warren County Highway Comm. plans improving 7 roads: Repair and regavel North Scenic Highway, Redwood to Yazoo County line, cost \$26,600; build road south of Jewish Cemetery, \$12,500; widen and straighten Warrenton road, from new Mississippi River Bridge to overhead railroad bridge, \$12,500; 3.4 mi. New Gravel road, from Jeff Davis Academy to Fisher's Ferry road, Third Dist., \$26,000; 7.44 mi. gravel road, from Bovina to Baldwin Ferry road, at Polk Place, \$42,050; 8 mi. gravel road, from Oak Ridge to Yazoo County line, Fifth Dist., \$53,340.

Mo., Brookville—City plans making South Main St. into boulevard, cost \$60,000. Address City Clk. See Financial News—Bond Issues Proposed.

Mo., Clayton—St. Louis County plans road building, cost \$10,000,000. Address St. Louis County Chamber of Commerce, Jas. R. Matthews, Pres. See Financial News—Bond Issues Proposed.

Mo., Joplin—City, O. P. Mahoney, Commr. of Streets, considering 1 1/4 mi. concrete paving on Fifteenth St.

Mo., Macon—City plans paving McKay St., Ruby, to Rutherford; Pace Ave., Rutherford to Jackson; plans receiving bids to pave Butler St., Rollins to Ruby. Address City Clk.

Mo., Poplar Bluff—City Council plans paving Oak, Sixth, Selma and Eighth Sts. Address City Clk.

Mo., St. Louis—City, Mayor Miller, plans sidewalks and gutters on Olive St.

N. C., Asheville—Buncombe County Commrs. plan grading and graveling 3 mi. Busbee to Cane Creek Highway.

N. C., Statesville—Iredell County Commrs. plan 2 hard surfaced roads between Statesville and Mocksville.

N. C., Statesville—City plans grading and hard surfacing with catenite, Carroll, S. Oak, W. Sharpe and Arnsfeldt St.; R. L. Crawley, City Engr.

Okla., Oklahoma City—City plans letting contracts to open Walker Ave., Grand to Fourth St.

Okla., Pond Creek—City Council plans 3 blocks paving. Address City Clk.

Okla., Sayre—Beckham County, Tom Lowry, Clk., plans paving Highway No. 66 and surfacing State Highways Nos. 24 and 41, and county roads; cost \$1,498,000. See Financial News—Bond Issues Proposed.

Okla., Tulsa—City, N. R. Graham, Pres. Park Board, considering straightening and widening Boston Ave., from south to north city limits.

Okla., Tulsa—City Comm., J. G. Whiteside, Finance Commr., plans receiving bids for vibrolithic or 7-in. concrete paving on Madison Place, Pine to Newton St.; plans paving Owasso Ave., Pine to Sand Springs Ry. tracks; approved paving Atlanta Ave., Archer to Haskell St.; Charles Schultz, City Engr.

Okla., Tulsa—City Comm., plans paving Jasper St., Troost Ave. to Wheeling Ave.; Charles Schultz, City Engr.

S. C., Spartanburg—City Commrs., Luther K. Brice, Commr. of Streets, plan expending about \$55,000 to extend, widen to 36 ft. and pave St. John St., from Oakland Ave. to East Main St., across south corner of Converse College campus.

Tenn., Covington—Tipton County contemplates system of hard surfaced roads, cost \$1,000,000. Address County Commrs. See Financial News—Bond Issues Proposed.

Tenn., Covington—Dept. of Highways and Public Works, C. N. Bass, Commr., Nashville, plans all-weather highway on Mississippi River, from Randolph, Tipton County, through Covington, Mason, Somerville, and to Moscow, Fayette County.

Tenn., Greeneville—Greene County Court appropriated \$150,000 toward hard surfacing Andrew Johnson Highway, Greeneville to Bulls Gap; county plans extending Highway

No. 26 through northern part of county. Greenville to Kingsport. Address County Commrs.

Tenn., Huntingdon—Carroll County Court plans roads from every direction, connecting with Federal Aid Projects Nos. 1, 22, 44, cost \$400,000. Address County Commrs. See Financial News—Bond Issues Proposed.

Tenn., Kingsport—City, Chas. F. Lingar, Mayor, plans paving with concrete, Sullivan St., Five Points to Circle, Maple St.; F. L. Cloud, Mgr.

Tenn., Knoxville—City, Charlton Karns, Mgr., received low bid from Murray Construction Co., Holston Bank Bldg., at \$9528, to widen and pave W. Fifth Ave. between Gay and Broadway. 9-8

Tenn., Knoxville—Dept. of Highways and Public Works, C. N. Bass, Ch. Highway Commr., Nashville, plans letting contract Dec. 15 to grade and hard surface Mascot road from Three Points to Grainger County line; Knox County plans loan of \$240,000 to State Highway Dept., toward paving state roads in County; S. O. Houston, County Judge; Frank Webster, State Highway Engr.

Tex., Albany—Shackelford County, Richard Dyess, Judge, plans 8½-mi. 5-in. caliche base, waterbound macadam, 2½-in. bituminous macadam, Highway No. 18, from end of present pavement to point west of Albany; estimated cost \$235,000; Jas. E. Pirie, Engr.

Tex., Beaumont—City, Ollie J. Boyd, Mgr., plans paving Wall and Trinity St.

Tex., Beeville—Bee County Commrs. Court plans hard surfaced highways touching county lines in four or five directions, and caliche roads with permanent drainage structures. Address County Commrs. See Financial News—Bond Issues Proposed. 7-28

Tex., Corpus Christi—Nueces County Commrs. plan road connecting Leopard St. and Robstown Road.

Tex., Edinburg—Hidalgo County plans road building in Road Dist. No. 1; cost \$4,000,000. Address County Commrs. See Financial News—Bond Issues Proposed.

Tex., Fort Worth—City, O. E. Carr, Mgr., plans receiving bids for 1800 ft. curb and gutter around parkway in Circle Park Blvd.

Tex., Galveston—City, E. H. Ivey, Commr. of Streets and Public Property, plans permanent paving on Ave. N, Twenty-third to Twenty-ninth St.

Tex., Galveston—Galveston County, John M. Murch, Auditor, plans receiving bids soon for Port Bolivar-High Island road; will sell bonds. 8-25

Tex., Hallettsville—Lavaca County, C. L. Stavinoha, Judge, plans 14.23 mi. two-course limestone rock asphalt surfacing, or triple bituminous surface treatment, Highway No. 72, Hallettsville to Fayette County line; estimated cost \$62,000; W. H. Koether, Engr., Yoakum; R. A. Thompson, State Highway Engr.

Tex., Huntsville—Walker County, P. H. Singletary, Judge, plans 17.27 mi. concrete, Highway No. 45, Huntsville to Grimes County line, estimated cost \$480,000; D. K. Caldwell, Engr.

Tex., Jourdanton—Atascosa County, E. T. Scott, Judge, plans bituminous macadam surfacing in 3 roads: Sec. A, 8.371 mi.; Sec. B, 9.09 mi.; Sec. C, 8.24 mi. from Pleasanton to Live Oak County line; estimated cost \$480,216; Jas. V. Curnette, Engr.

Tex., Jourdanton—Atascosa County Commrs. Court plans road building, including road from Bexar County line, at Somerset, through Rossville to Poteet and on to Commrs. Precinct line, between Poteet and San Antonio-Pleasanton Highway No. 9; cost \$350,000. See Financial News—Bond Issues Proposed.

Tex., Leakey—Real County Commrs. Court plans 8 roads: Up canyon to Frio River, through Frio and Leakey; from line between Real and Uvalde Counties, intersection with Kerrville-Rocksprings Highway on Edwards plateau; 10 mi. road up east prong Frio River from Leakey; from Leakey through Vance to Camp Wood. See Financial News—Bond Issues Proposed.

Tex., Liberty—Liberty County plans hard-surfacing Liberty-Livingston Highway, from Liberty along Trinity River to Livingston. Polk County. Address County Commrs. See Financial News—Bond Issues Proposed.

Tex., Linden—Cass County, R. H. Harvey, Judge, plans 2 roads: 5.643 mi. iron ore gravel surface, Highway No. 8, south from Douglasville; to be resurfaced later with bituminous macadam; 7.44 mi. iron ore gravel surface, Highway No. 8, from point northeast of Linden to Linden; bituminous macadam surfacing later; S. B. Janes, Res. Engr.

Tex., Livingston—Polk County plans road

building. Address County Commrs. See Financial News—Bond Issues Proposed.

Tex., Marlin—Falls County, W. T. Hunnicut, Judge, plans 7.63 mi. gravel base, 3-in. bituminous macadam, Highway No. 108, west from Rosebud; estimated cost \$171,721; Van B. Harris, Engr., Rosebud.

Tex., Mexia—City, Comm. plans street paving, cost \$50,000. See Financial News—Bond Issues Proposed.

Tex., Paducah—Cottle County, James M. Whatley, Judge, plans 12.321 mi. grading and bridges, Highway No. 28, Motley County line to Paducah; Nalge-Witt-Rollins-Gilchrist, County Engrs., Allen Bldg., Dallas.

Tex., Plainview—Hale County, Geo. L. Mayfield, Judge, plans 37 mi. grading, bridges and brick and concrete surfacing, Highway No. 9, Lubbock County line to Swisher County line, estimated cost \$1,369,000.

Tex., Quanah—City Council considering paving 7 additional blocks to connect with recently paved blocks on Cain St. Address City Clk.

Tex., San Angelo—Tom Green County, J. F. Mathison, County Judge, plans completing grading and drainage structures on 16 mi. Robert Lee Road.

Tex., San Angelo—Tom Green County, J. T. Mathison, County Judge, plans 15.666 mi. 18-ft. reinforced concrete, Highway No. 9, from point east of San Angelo to Concho County line; T. J. Kelly, Engr.

Tex., San Antonio—City, Phil Wright, Acting Mayor, considering widening 3 blocks West Travis St. to 66 ft.; Paul E. Steffler, Commr. of Streets.

Tex., San Benito—City Comm., J. Scott Brown, Mayor, receives bids Oct. 26 for 15,000 sq. yd. concrete pavement, 7000 lin. ft. curb.

Tex., San Saba—San Saba County Commrs. Precinct No. 4 plan improving 12 mi. road from San Saba to Chappel.

Tex., Vernon—Wilbarger County, J. V. Townsend, Judge, plans 5 mi. concrete, Highway No. 28, Oklahoma to Red River, estimated cost \$152,828; John B. Nabors, County Engr.

Tex., Waxahachie—State Highway Comm., R. S. Sterling, Chmn., Austin, receives bids Oct. 10 for 3 roads, 3-in. bituminous macadam surface course, 9½-in. compact limestone base course, in Ellis County; 5.89 mi. from Waxahachie west to Ray; .87 mi. from Waxahachie west; 4.83 mi. from Waxahachie to Sardis; R. A. Thompson, State Highway Engr.; W. A. Spalding, County Engr.

Virginia—State Highway Comm., H. G. Shirley, Chmn., Richmond, receives bids Oct. 18 for 2 roads: Project S156B—2.2 mi. concrete; S497C—64 mi. bituminous macadam; plans on file.

Virginia—State Highway Comm., H. G. Shirley, Chmn., Richmond, received low bids for 6 roads and 2 bridges: Tazewell County—2 mi. bituminous macadam, Route 11, Snead & St. Martin, Gate City, \$9,425; Albemarle County—1.7 mi. bituminous macadam, Route 28, Copenhaver Construction Co., Emporia, \$87,427; Princess Anne County—5.5 mi. gravel roadway, Route 1012, Roberts Paving Co., Salisbury, Md., \$69,389; Tazewell County—685 mi. grading and draining, Route 105, R. L. Lipscomb & Co., Bailey Bldg., Bluefield, W. Va., \$22,338; Bedford County—concrete bridge, Route 10, Perkins & Barnes, Blackstone, \$15,384; Smyth County—concrete bridge, Route 10, Snead & St. Martin, \$5,473; Alleghany County—8.08 mi. grading and draining, Route 14, Echolls Construction Co., Cass, W. Va., \$151,527; Patrick County—3.2 mi. grading and draining, Route 23, Roberts Paving Co., Pulaski, \$53,134; C. S. Mullen, Ch. Engr. 9-15

Va., Martinsville—Henry County Board of Suprvs. plans hard-surfacing road from Norfolk and Western Station, crossing at Bassett, to lower iron bridge at Bassett.

W. Va., Charleston—Kanawha County, Union Dist., plans hard surfacing roads between Lock Six and Nitro and extend lateral roads: From Smith St. Dunbar, toward Nitro; widen Lock Six-Dunbar road; extend lateral roads connecting with Sissonville road; extend Woodwards Branch road; cost \$175,000. Address County Commrs. See Financial News—Bond Issues Proposed.

W. Va., Bluefield—City, Board of Directors, plans sidewalks on Bluefield Ave., Alder to Cypress St. Address City Mgr. Bennett.

W. Va., Buckhannon—City, Henry R. Gay, Mayor, receives bids Oct. 15 for 5,100 sq. yd. concrete, brick on sheet asphalt, to repave Main St.; B. S. Simpson, City Engr.

W. Va., Huntington—Cabell County Commrs. Court plan receiving bids for 2 roads: Project No. 8—Long Branch to Doss Hill, estimated cost \$6000; No. 9—Davis Creek to Booten's Creek road, \$12,000; J. M. Oliver, County Engr.

W. Va., Parkersburg—City plans paving Charles St. with plain cement concrete, from Swann to Williams St.; estimated cost \$7586; may pave Twenty-third, East Twelfth, Thirteenth and Ten and One-Half St.; J. V. Dunbar, City Engr.

Contracts Awarded

Ala., Birmingham—City Comm., Eunice Hewes, Clk., let contracts at \$93,893 for paving 6 streets and installing sewers: Morgan-Hill Aving Co.; Dan A. Burton, Jackson Bldg.; Dunn Construction Co., Chamber of Commerce Bldg.; Southern Roads Co., Pioneer Bldg.; Newell Contracting Co., Martin Bldg.; Camp & Pearson; A. H. Dimilian, Woodward Bldg.; J. A. Taylor, 1600 Tenth Ave. S.; A. J. Hawkins, City Engr.

Ala., Mobile—See Land Development.

Ark., Fort Smith—City let contract to Bugg Construction Co., at \$1.51 sq. yd., to pave section of Greenwood Ave. Address City Clk.

Ark., Harrison—M. E. Gilloz, Monett, Mo., has contract at \$98,031 for 13 mi. 30-ft. Highway No. 65, from Harrison toward Omaha, Boone County.

Ark., Little Rock—Commrs. Improvement Dist. No. 448, C. U. Harrison, Commr., 1614 W. Tenth St., let contract to P. F. Connelly Paving Co., Home Insurance Bldg., at \$11,900 for 6750 sq. yd. asphalt paving on present base.

Fla., Bartow—Polk County Commrs., J. D. Raulerson, Clk., let contract to Langston Construction Co., Bartow, at about \$130,000, for 5 sheet asphalt on clay base roads, totaling 7 mi.: Through East Manor, from town-site toward Vero Beach Highway; east and west on Scenic Highway; toward Yacht and Country Club; from Scenic Highway toward Lake Caloosa.

Fla., Crescent City—Town, C. M. Austin, Deputy Clk., let contract to Kidd Construction Co., Masonic Temple Bldg., Jacksonville, at \$9,667, for grading, sheet asphalt on black base, Wiltonite process, street paving, curb and gutter. 9-1

Fla., Crystal River—L. B. McLeod Construction Co., 4166 Tampa St., reported, has contract to grade 2 mi. streets within city limits.

Georgia—State Highway Board, East Point, let contract for road and 7 bridges: Gwinnett County—2 mi. concrete paving, Buford-Gainesville road, Carolina Contracting Co., Andrews-Law Bldg., Spartanburg, S. E., \$52,317; Burke County—2 concrete bridges, Waynesboro-Augusta road, George A. Thomson & Co., Macon, \$55,270; Cobb County—3 bridges, Atlanta-Austell road, Brooks-Callaway Co., McGlawn-Bowen Bldg., Atlanta, \$22,059; Spalding County—timber bridge, Griffin-Newman road, L. G. Summers, Atlanta, \$5142; Thomas County—concrete bridge, Thomasville-Pavo road, Small & Triplet, Chattanooga, Tenn., \$83,542.

Ky., Paducah—Frazier & Cocke has contract to grade and gravel Twenty-first St., Hinkleville road to Jackson St., from Jackson St. to Union Station; J. N. Bailey, Mayor.

Louisiana—Louisiana Highway Comm., Frank T. Payne, Chmn., Baton Rouge, let contracts for 2 roads: Lafourche Parish—13.103 mi. Cut Off-Golden Meadow Highway, W. C. Perry, 245 Main St., Baton Rouge, \$37,468; Washington Parish—6.548 mi. Sun-Bogaloussa-Mississippi State Line Highway, Moody and Stewart, Poplarville, Miss., \$42,954. 8-18, 9-1

Md., Baltimore—City, Board of Awards, let contract to Baltimore Asphalt Block & Tile Co., 1320 N. Monroe St., at \$25,462, to pave with sheet asphalt Cold Spring Lane, from old Cold Spring Lane to Eastway; to Mahoney Brothers, 1111 Rutland Ave., at \$13,939, to pave with cement concrete sections of 4 streets: Kingston and Westgate Road, Denver and Nanticoke Sts.

Miss., Canton—Madison County Board of Suprvs. let contract to H. Maxwell, Brookhaven, for improving 6 mi. Sharon-Canton road.

Miss., Clarksdale—City, L. A. Ross, Mayor, let contract to M. H. Ellis, at \$7,000 for sidewalks, curbing and gutters.

Mo., Jefferson City—City, C. B. Steer, Clk., let contract to Joseph Pope, at \$12,428, to improve 3 streets, including Hamlin, McCarty and Fulkerson Sts., to Louis Brunner, at \$8477, to improve 2 streets, Benton and Locust; F. E. Ross, City Engr. 9-22

Mo., Kansas City—City, Matthew S. Murray, Director of Public Works, let contracts to pave 4 streets: Elmwood Ave., 4045 sq. yd. 7-in. concrete, McTernan-Halpin, \$3.39 per sq. yd.; Ewing Ave., 3700 yd., Brosnahan Bros., \$3.39 per sq. yd.; Montgall Ave., 1733 yd., Finn, \$3.35 per sq. yd.; State St., 4118 sq. yd., J. O'Connor, \$3.39 per sq. yd.

N. C., Winston-Salem—City, Board of Aldermen, let contract to C. A. Heilig, at \$7911,

for concrete paving, retaining walls, stone pavement, etc., about city garage and barns.

Okla., Holdenville—City let contract to H. L. Cannady Co., 1116 S. Lewis St., Tulsa, at \$22,700, for concrete street paving.

Okla., Seminole—City, Palmore Noe. Clk., let contract to Ward-Beekman & Brooks, Inc., 1801 E. Ninth St., Oklahoma City, for concrete street paving; V. V. Long & Co., Engrs., Colcord Bldg., Oklahoma City.

Okla., Wewoka—City, Don Frazier, Clk., let contract to Henson & Pierce, Oklahoma City, at \$176,400 for paving in Dist. No. 10.

Texas—State Highway Comm., R. S. Sterling, Chmn., Austin, let contract for 4 roads and 4 bridges: costing \$420,562: Hill County—4 mi. hard surface, Highway No. 6; Ellis County line south, R. B. Sparks, 225 N. Brighton St., Dallas, \$58,488; Anderson and Cherokee Counties—steel bridge and 2 concrete girder bridges over Neches River, Highway No. 43, Sullivan & Davis, Granger, \$93,162; Mitchell County—9.5 mi. grading and drainage structures, Highway No. 1, Culverhouse & Jones, Trent, \$30,342; Washington County—6.5 mi. concrete, Highway No. 90, Brenham, northeast, A. A. Davis & Co., Thirty-first and Troost St., Kansas City, Mo., \$133,130; Bell County—steel bridge over Little River, Highway No. 2-B, Austin Bridge Co., 1813 Clarence St., Dallas, \$31,417; Jeff Davis and Reeves Counties—40 mi. surfacing, Highway No. 1, Cocke & Turner, Marshall, \$74,023.

Tex., Galveston—City, E. H. Ivey, Commr. of Streets and Public Property, let contract to H. J. Hetkes, Security Bldg., to pave Fourteenth St. from Ave. A to Boulevard.

Tex., Gilmer—J. E. Ward Co., Linz Bldg., Dallas, at \$15,360 for 12½ mi. hard surface Jefferson Highway, from point south of Gilmer to county line.

Tex., Houston—City, J. C. McVea, City Engr., let contract to Gulf Construction Co., at \$129,000 to gravel 57 streets in various sections of city. 9-1

Tex., Houston—City, J. C. McVea, City Engr., let contract to San Jacinto Construction Co., 22-23 Walker St., at \$128,891 for 3-in brick surface on 7-in. concrete or vibro-lithic base, on Navigation Blvd., and Wayside Drive. 9-15

Tex., Plainview—Jordan Construction Co. has contract to pave Seventh St., Quincy to Galveston St.; K. H. Johnson, Constr. Engr.

Tex., Waxahachie—Ellis County Commrs., H. R. Stovall, County Judge, let contract to Dexter Co. to asphalt top 1 mi. road in 4 Commrs. Precincts: Commr. Goddard, Five Points road, from Bullard Heights toward Italy; Commr. Cowan, Palmer road to county farm; Commr. Howard, Howard road, from Waxahachie; Commr. Stephenson, Buena Vista road.

W. Va., Franklin—N. G. Scott Construction Co., has contract to hard surface State Road No. 28, from Fox Hole, 5 mi. south of Franklin, to Cave. Address Pendleton County Commrs.

W. Va., Huntington—Cabell County Commrs., Court let contracts to grade, build bridges and culverts on 7 roads, Barboursville Dist.: Project No. 22—4 mi. Merritt's Creek and Little Seven Mile road, Billups & Wellman, Huntington Natl Bank Bldg., \$22,631; No. 23—3 mi. Pea Ridge to Sixteenth St. road, S. C. Isaacs & Co., Hamlin, \$15,104; No. 24—5 mi. Blue Sulphur to Seven Mile road, Richard R. Cook, 604 Tenth Ave., \$35,062; No. 25—1½ mi. Cyrus Creek road, Hunt-Forbes Construction Co., First Natl. Bank Bldg., \$9748; No. 26—1½ mi. Hughes Branch road, Thompson & Thompson, \$9913; No. 27—1 mi. Long Branch road, S. C. Isaacs & Co., \$6221; No. 28—1 mi. Camp Branch road, S. C. Isaacs & Co., \$6761; J. M. Oliver, County Engr. 9-1

W. Va., Ridgely—Town, J. H. Simmons, Recorder, let contract to Minns & Dodd, Spencer, for 3500 ft. 18-ft. concrete pavement on Mineral St. and Miller Ave.; B. F. Magruder, Mayor. 9-29

Sewer Construction

Sewer construction in LAND DEVELOPMENT projects involves the expenditure of large sums of money. Under that classification details of these improvements are reported.

Ala., Birmingham—See Roads, Streets, Paving.

Ala., Birmingham—A. H. Dimijian, Wood-

ward Bldg., reported, has contract for sanitary sewers in Elyton Highlands.

Ala., Decatur—City receives bids Oct. 18 for storm sewer. See Want Section—Bids Asked.

Ark., Fort Smith—City plans \$83,000 sewer bonds. See Financial News—Bond Issues Proposed.

Fla., Daytona Beach—See Roads, Streets, Paving.

Fla., St. Petersburg—Alex McGlashan, 2435 Second Ave. N., has contract for 1500 ft. of 24-in. storm sewers; Ernest Kitchen, Director of Public Works. 9-15

Fla., Tampa—City will repair Julia Street drain; cost \$25,000. Address The Mayor.

Ga., Ocilla—See Roads, Streets, Paving.

Ky., Georgetown—Carey Reed Co., Lexington, has contract at \$50,000 for sanitary sewers; Bell & Terrell, Engrs. 9-29

Ky., Paducah—City, J. N. Bailey, Mayor, votes Nov. 8 on bond issue for sewers in new urban territory. See Financial News—Bond Issues Proposed.

La., Opelousas—City voted \$100,000 sewer bonds. A. J. Perrault, Mayor. 9-15

La., Shreveport—City let contract to R. T. Myers Construction Co., Citizens Natl. Bank Bldg., Meridian, Miss., for main sewer artery; install 2 sewage lift stations, 2400 ft. 24-in. cast-iron pipe, 14,000 ft. 24-in., 13,000 ft. of 21-in., 12,000 ft. of 15-in. tile or cement pipe, 6000 ft. of 12-in. cast-iron force main; install two 1500 gal. centrifugal and two 1000 gal. centrifugal pumps, electrically operated; B. Nicoll & Co., Inc., 294 Madison Ave., New York, and Dallas, Tex., Mch. Contrs.; Thos. L. Amiss, Supt. and Eng. Dept. of Water and Sewerage. 9-8

Miss., Brookhaven—See Roads, Streets, Paving.

Mo., St. Louis—Whitmire Construction Co., Kansas City, reported, low bidder at \$2,277,217 for covering River Des Peres through Forest Park from Manchester Ave. to point near Union Blvd. 9-8

N. C., Asheville—City receives bids Oct. 8 for storm sewers. See Want Section—Bids Asked.

N. C., Greensboro—City let contract to A. H. Guion & Co., N. Broad St., Gastonia, at \$52,326, for construction of 2-mi. 24-in. sewer fall extension and erection of septic tank; M. M. Bayles, Engr. 9-22

N. C., Thomasville—City, reported, let contract to W. S. McClelland, Wilder Bldg., Charlotte, at \$83,000, for constructing 61,000 ft. of 18-in. concrete pipe in connection with new plant on Hunt's Fork Creek.

Okla., Tulsa—City, reported, expend \$9960 for storm sewer draining for Sunset Terrace addition.

Tenn., Knoxville—G. M. Ferris, reported, has contract at \$38,408 for installing Mountain View sanitary sewer system. 9-8

Tex., Amarillo—City, reported, opens bids Oct. 10 for sanitary sewer main and laterals in East End.

Tex., Clifton—E. Handley, Mayor, votes Oct. 11 on \$59,000 sewer bonds. See Financial News—Bond Issues Proposed.

Tex., Fort Worth—McKenzie Construction Co., 3600 E. First St., reported, low bidder at \$39,316 for sanitary sewer in Brooklyn Heights.

Tex., Mexia—City plans \$10,000 bonds for storm sewers. See Financial News—Bond Issues Proposed.

Shipbuilding Plants

Fla., Fort Lauderdale—Ed. Pyncheon, reported, purchased the Lauderdale Boat Works, on New River banks at S. W. First Ave. and South River Drive, making improvements including deepening of slip, increase capacity of yards, etc.

Fla., Key West—See Miscellaneous Construction.

La., New Orleans—Ingalls Iron Works Co., 720 Avenue D, Birmingham, Ala., reported, has contract for 200 tons fabricated steel for plant of Todd Engineering Dry Dock & Repair Co., 960 Fulton St. 9-22

Street Railways

N. C., Asheville—Carolina Power and Light Co., Raleigh, N. C., let contract to Palmer-Spivey Construction Co., 404 S. Tryon St., Charlotte, at \$96,000, for erection of combination car barn and garage; 2-story, 69x256 ft., reinforced concrete, brick walls. 9-8

Tex., Houston—Houston Electric Co., reported, expend about \$125,000 on new terminal facilities; acquired 15 acres land on

Taylor St., near Spring St., erect 80x100 ft., steel and brick car house, capacity 100 cars, ten storage trucks; will convert present garage into repair shop.

Va., Ocean View, Sta. Norfolk—Virginia Electric & Power Co., 200 E. Plum St., reported, plans erecting modern street car passenger station.

Telephone Systems

D. C., Washington—Chesapeake & Potomac Telephone Co., Charles T. Claggett, Gen. Commercial Supt.; expend \$312,790 on improvements and additions, including pole lines, aerial and under ground work, switchboard, etc.

Ga., Thomaston—Thomaston Telephone Co., W. M. New, Pres.-Mgr., install entire new system, including central office equipment, telephones, cables, etc. See Want Section—Machinery and Supplies. 9-22

Md., Baltimore—Chesapeake & Potomac Telephone Co., W. A. Conditt, V. Pres., expend \$353,000 on improvements and additions, including pole lines, switchboards, aerial and underground work, etc.

Mo., Fayette—Southwestern Bell Telephone Co., main office St. Louis, reported, plans erecting 1-story, 40x50 ft., exchange building; concrete floor, wood joists; I. R. Timlim Archt. for Company, St. Louis; F. J. Brandel, Engr.

Okla., Frederick—Merger of Frederick, Hollister, Davidson and Loveland telephone exchanges of Tillman County and the Hollis and Gould exchanges into one district, reported; H. M. Cammack Co., 39 S. LaSalle St., Chicago, Ill., recently purchased the six exchanges; B. Richardson, 3015 West 12th St., Oklahoma City to be Dist. Mgr.

Tenn., Chattanooga—Southern Bell Telephone and Telegraph Co., main office Atlanta, Ga., have plans well under way for 2 new central office buildings for enlarged and improved telephone system; expansion program will extend over period of several years and \$2,250,000 will be spent in next 18 months; one 6-story building to be erected on Tenth and Lindsay St., to replace existing Main-Walnut office, install dial type equipment; second building 3 story, to be erected at Duncan and Dodds Ave. and replace present Hemlock manual offices at 600 Union St., dial type equipment; reinforced concrete; construction work to start this fall; cost of plant additions, excluding central offices and equipment, estimated to be \$543,000. Southern Bell Telephone & Telegraph Co., wires following concerning two dial central office buildings proposed for Chattanooga: "Marye, Alger and Vinour, Architects, Walton Bldg.; Barge Thompson Co., Gen. Contrs., 136 Ellis St., N. E., both Atlanta; 3-story and basement building (down town) at Tenth and A st., plans for 3-story future addition, height approximately 100-ft. above sidewalk, provide 76,000 sq. ft. floor area when completed; concrete and structural steel, exterior dark rough brick and limestone trim; estimated cost \$300,000; building in residential area, Duncan and Dodds St., 1-story and basement, future 2-story addition, to provide total floor space 22,000 sq. ft., structural design concrete with bar reinforcements, exterior dark rough brick with limestone trim, estimated cost \$85,000; Tenth Street building to have dial equipment, district offices and toll central office facilities; Dodds Street building to have dial equipment only; estimated cost new central office equipment, \$1,230,000; cost of line plant including cables, conduit, subscribers dial telephones and miscellaneous equipment will exceed \$600,000; Brown Contracting Co., James Bldg., has contract for excavation.

Va., Richmond—Chesapeake & Potomac Telephone Co., W. T. Williams, V. Pres., expend \$248,000 on improvements and additions, including pole lines, switchboard, aerial and underground work, etc.

W. Va., Charleston—Chesapeake & Potomac Telephone Co., Charles H. Weber, V. Pres., expend \$252,000 on improvements and additions, including pole lines, switchboard, aerial and underground work, etc.

Textile Mills

Ala., Gadsden—Farmers' Union Warehouse & Storage Co., reported, rebuild warehouse recently burned at Second and Short Sts.

Ala., Montgomery—Cloverdale Cotton Mills organized and acquired Montgomery Cotton Mills at West End; will remodel building and install equipment.

Ga., La Fayette—La Fayette Cotton Mills, J. M. Patton, Sec., will construct mill, 135x185 ft., daily capacity 16,500 yds.; install 5000 spindles, 110 looms and electric power; cost of structure \$40,000, and machinery

\$100,000; Robert & Co., Bona Allen Bldg., Atlanta, Ga., Archt.-Engr. 9-29

N. C., Asheville—Randolph Silk Hosiery Mills, reported, leased building; will install machinery for producing full fashioned hosiery.

N. C., Brevard—Chamber of Commerce and J. S. Bromfield, Thomas H. Shipman, reported, interested in cotton mill.

N. C., Burlington—May Hosiery Mills, Inc., have had plans prepared by J. E. Sirrine & Co., Engrs., Greenville, S. C., for addition to main building; will not ask for bids this year, but construction will be started early in the spring. 9-29

N. C., High Point—L. Smith, P. O. Box 724, and associates, propose erecting hosiery mill, with \$100,000 to \$150,000 capital. See Want Section—Machinery and Supplies.

N. C., Rocky Mount—W. H. Draper & Sons Co., capital \$100,000, incorporated; R. L. Draper and E. E. Draper, Troy, N. Y.; R. L. Huffines, Rocky Mount; has building, will remodel, remove machinery from Northern plant; manufacture cord and twine. 9-22

S. C., Greenville—F. W. Poe Mfg. Co., reported, plans rebuilding recently burned waterhouse No. 4.

S. C., Laurens—Sidney M. Edelstein & Co., Industrial Engineer, Union, advises: "Have closed contract for relocation of braid mill; will be known as Pioneer Braid Corp.; will manufacture rayon, tinsel, silk and cotton braids, etc.; charter applied for; officers not elected; suitable building to house plant now being planned; building operations to begin within 2 weeks." 8-18

Tenn., Knoxville—Knoxville Knitting Mills increased capital \$400,000 to \$600,000.

Tex., Houston—W. F. Smith, reported, interested in establishing towel mill.

Va., Richmond—Du Pont Rayon Co., Sta. B., Buffalo, New York, reported, acquired site of 395 acres on Petersburg turnpike for artificial silk manufacturing plant; Allen J. Saville, Inc., Electric Bldg., Engrs., J. S. Denham, Du Pont Rayon Co., wires: "Have purchased tract of land near Richmond for possible future plant expansions."

Water Works

Details of water works improvements in connection with the many LAND DEVELOPMENT operations will be found under that classification.

Ala., Birmingham—Alabama Water Service Co., E. Fies, Pres., American Trust Bldg., will erect \$75,000 water plant at Prichard and \$60,000 plant at Collinsville; install 5 miles of mains, 200,000 gal. reservoir and 100,000 gal. standpipe at Prichard; 4 miles of mains, 25,000 gal. reservoir and 60,000 gal. standpipe at Collinsville; also well pumps and service pumps; Phenix Engineering Co., subsidiary of Alabama Water Service Co., Contrs.; specifications and plans from C. Van Den Berg, V. P., Alabama Water Service Co.; machinery contracts not let. 9-29

Ark., Lewisville—Ned A. Stewart, Secy., Chamber of Commerce, through Lewisville Water & Sewer District No. 1, Special, have had preliminary survey made by E. T. Archer & Co., Engrs., Chamber of Commerce, for \$50,000 water works improvements; petition authorizing bond issue now being made; bids for both filtration plant and storage reservoir to be called for later.

Fla., Bradenton—Virginia Machinery and Well Co., 1319 E. Main St., Richmond, Va., reported, has contract for drilling well.

Fla., Cocoa—City, receives bids Oct. 14 for filter plant. See Want Section—Bids Asked.

Fla., Daytona Beach—See Roads, Streets, Paving.

Fla., Panama City—City Comsn., votes Oct. 8 on water works bonds. See Financial News—Bond Issues Proposed.

Ga., Acworth—City, reported, has had preliminary survey made by J. B. McCrary Co., Atlanta, for sewerage, water and light extensions; \$200,000 bonds available. 9-22

Ky., Covington—Thomas Donnelly, Public Property Commr., reported, plans installing 800 ft. of 6-in. water pipe on Park Drive and 200 ft. on Winston Ave., between 43rd and 44th Sts.

La., Monroe—City let the following contracts for water works: For buildings and structures to B. E. Buffalo & Co., 658 East St., Memphis, Tenn., at \$217,543; for filter

equipment to Robert's Filter Co., Darby, Pa., at \$29,390; pumping and electric equipment to Walter Castenado, Canal-Commercial Bldg., New Orleans, at \$16,871; for cast iron pipe to U. S. Cast Iron Pipe & Foundry Co., American Trust Bldg., Birmingham, Ala., at \$120,991; distribution system to W. H. O'Toole, Alexandria, at \$39,892; hydrants and valves to R. D. Wood Co., 400 Chestnut St., Philadelphia, Pa., at \$11,085; steel tanks to J. W. Schofield Sons Co., Boundary St., Macon, Ga., at \$27,800; W. I. Neel, City Engr. 9-1

La., Olla—City, reported, soon begin installation of water works. Address The Mayor.

Mo., Cabool—City votes in Oct. on \$40,000 bonds to establish a municipal water works system.

Mo., Ironton—City voted \$49,000 water works bonds. Address The Mayor.

Okla., Perry—City, reported, expend \$50,000 for improving and enlarging municipal water and light plant to double capacity; plans include purchasing of 600-h.p. engine, raising of roof and installing large crane.

S. C., Clover—City voted \$10,000 water works bonds. Thos. T. B. Williams, Clk.

Tenn., Chattanooga—City Water Co., A. F. Porzellus, Superintendent, reported, to call present 7% preferred stock and replace with \$1,000,000 of 6% preferred stock underwritten by First Securities Corp.; plans enlarging and improving pumping station, new water mains, etc.

Tenn., Nashville—Madison Water Co. and Eleventh District Civic Club, reported, interested in water supply for Montague and Hayesboro residential sections.

Tex., Amarillo—City, Jeff D. Bartlett, Mgr., receives bids Oct. 11 for construction of 3 cottages on Palo Duro pumping station property.

Tex., Devine—City will receive bids Oct. 15 for water tank. See Want Section—Bids Asked. 9-22

Tex., Harrisburg—City, James H. B. House, Water Commr., reported, plans expending \$125,000 for wells, pumping plant, etc.

Tex., San Antonio—City, W. D. Masterson, Mgr., Water Board, reported, install 20,000,000 gal. steam turbine engine, pump and boiler in Market St. station; opens bids Oct. 21.

Tex., Wewoka—City, reported, plans construction new standpipe for Bluff View Addition.

W. Va., Parkersburg—City receives bids Oct. 26 for water works. See Want Section—Bids Asked.

Woodworking Plants

Ala., Montgomery—Humphrey-McLemore Lumber Co., New Albany, Ind., reported, plans moving hardwood finishing plant, erect factory on old remount station site, Central of Georgia R. R., cost about \$200,000; employ about 100 persons.

Fla., Jacksonville—Woodward Mantel and Supply Co., reported, plans enlarging main factory at Jacksonville; also establish branch at Savannah, Ga.

Ga., Savannah—See Fla., Jacksonville.

Ga., Waycross—George U. Gates and associates interested in establishing veneer mill.

N. C., Forest City—Furniture—Turner's, Inc., capital \$10,000, incorporated; J. A. Turner, S. S. Turner, both of Forest City; I. B. Turner, of Charlotte.

FIRE DAMAGE

Ark., Fort Smith—Building at S. Fourth St. and Garrison Ave., owned by J. A. Robertson, 1212 I St., Galveston, Texas; loss \$10,000.

Ark., Little Rock—Dairy barn owned by Frank Griffin; operated by R. W. Oats.

Ark., Prescott—Autrey Oil Co.'s boiler station and treating plant; loss \$25,000.

Ark., Wickes—Planer of Wonder State Lumber Co.; loss \$25,000; Bert Higginbottom of Mena, Owner.

Ga., Quitman—E. R. Brown's residence.

Ga., Senola—Store of C. B. Daniel's Sons; loss \$50,000.

Ky., Danville—Whipp Hotel; loss \$50,000. Address The Prop.

Ky., Fulton—Lon Bruce's residence near

Kingston store, between Fulton and Dukedom; loss \$10,000.

La., Bogalusa—Chip room of the Bogalusa Paper Co.'s plant.

La., Independence—Independence Motor Co.'s plant, loss \$10,000.

La., Istrouma—Residences of R. D. Roland, J. H. Williams, B. L. McTaggart and Roy C. Strain; owned by J. W. Piper; loss \$10,000.

La., Monroe—North Louisiana Industrial High School, colored, 1001 Texas Ave.; Mount Pleasant Baptist Church, colored; address the Pastor.

La., New Orleans—Warehouse of Jackson Brewing Co., St. Louis and Decatur Sts.; loss \$30,500.

La., Vinton—Hotel Shaw, Dr. J. W. Shaw, Propr.; loss \$20,000.

Md., Hagerstown—Albert Beck's restaurant and shoe store of Bentz & Dunn.

Miss., Belzoni—Mrs. Mamye C. Higdon's residence, Jackson and Central Aves.; loss \$10,000.

Miss., Biloxi—A. C. Buxton's building on 13th St.; loss \$14,000.

Miss., Brookhaven—S. E. Moreton's residence, S. Jackson St.; loss \$15,000.

Miss., Brookhaven—Brookhaven Mattress Works, M. Grice, Prop.; building owned by Lee Smith.

Miss., Meridian—Prof. J. A. Riddell's residence, Poplar Springs Drive; loss \$6000.

Miss., Monticello—P. G. Atwood's residence near Monticello; loss about \$10,000.

Miss., Osyka—Totten Veneer & Lumber Co.'s plant; loss \$150,000.

Miss., Tupelo—Dormitory of Tupelo Military Institute.

Mo., Clayton, St. Louis—Residence under construction, Clayton Terrace and Essex Drive, owned by Richard Klorer, Sec., Darst-Kemplant Real Estate Co., 7508 Clayton Rd.

Mo., Independence—Residence, Lexington Rd., owned by Fred Blaslar, 5626 E. 13th St., Kansas City; loss \$8500.

N. C., Charlotte—Springs Building, Hall Johnston, part owner; loss \$50,000.

N. C., Hickory—Hubert Fries Hosiery mills; loss \$10,000.

N. C., Wilmington—Building occupied by Southland Manufacturing Co. and Nehi Bottling Works.

Okla., Tulsa—Hill-Hubbell Paint Co.'s boiling house on the Sand Springs Highway.

S. C., Abbeville—C. B. Wilson's dwelling, Haigler St., occupied by W. D. Hood and Gene Schroeder.

S. C., Pomaria—Three warehouses of Setzler Co. and Lominick Brothers.

Tenn., Chattanooga—Building of Lookout Oil and Refining Co., Cedar St.

Tenn., Madisonville—Building owned by Lee R. Sloan, occupied by Wilson Hardware Co.

Tenn., Oakdale—John Polston's residence.

Tenn., Trezevant—Watson-White Cotton Co.'s gin.

Tenn., Tullahoma—Residence, "Lonesome Pine," owned by Harry Parker, Chicago, Ill.

Tex., Dallas—Portion of building at 800-02 Commerce St., occupied by Rogers Wells & Co., (overall manufacturers) and Roos-Freshman-Shayn Co.; loss \$300,000.

Tex., Dallas—Queen Pharmacy and Queen Cafe, 3122 Bryan St., East Dallas, owned by S. Carra; loss \$25,000.

Tex., Junction—Lockley Theater building; John H. Hankin Drug Co.; Kendrick Grocery; T. M. Hodges' building; loss \$40,500.

Tex., Lufkin—Long-Bell Lumber Co.'s shops; loss \$15,000.

Tex., San Saba—Ponton and Vogel's gin; loss \$20,000.

Tex., Snyder—Joe Strayhorn Building; loss \$40,000.

Tex., Yoakum—Landry Buick Garage; loss \$17,000.

Va., Gate City—Willis Chapman's residence.

Damaged by Storm

Mo., St. Louis—Plants of Blackmer and Post Pipe Co., 2801 Hereford St., Polar Wave Ice Co., Duncan and Newstead Aves., Hydraulic Press Brick Co., 5100 Manchester Ave.; Yeatman High School; St. Louis High School and Riddick, Columbia and Marquette grade schools; Mullanphy Hospital; dwellings, etc.

BUILDING NEWS

BUILDINGS PROPOSED

Association and Fraternal

Ark., Helena—Ancient Free and Accepted Masons, E. S. Dudley, Chmn., Bldg. Comm., plan \$40,000 temple; brick or stone, fireproof, 2 stories.

Fla., Lake Worth—Benevolent Protective Order of Elks, H. W. Gorham, member, Finance Comm., erect \$25,000 building, 12th Ave. and Q St.

Ga., Atlanta—Yaarab Temple Building Co., Geo. E. Argard, Sec., reported, has low bid at \$721,655 from C. A. D. Bayley & Co., Inc., C. & S. B. Bldg., Atlanta, and Interstate Bank Bldg., New Orleans, La., for Shrine Temple; Marye, Alger & Vinour, Archts., Walton Bldg., Atlanta. 8-25

Ky., Fulton—Ancient Free and Accepted Masons plan \$75,000 temple.

Mo., Sedalia—Sedalia Lodge of Elks considers purchasing or erecting building for lodge quarters.

Mo., St. Louis—Masonic Lodge of Missouri, 5343 Delmar Blvd., started work on \$50,000 chapel, 5343 Delmar Blvd.; 1 story and basement, 48x67 ft., brick; H. G. Clymer, Archt.-Constr. Supvg., 620 Wainwright Bldg., 9-29

N. C., Asheville—Knights of Pythias, Dr. Philip R. Moale, Pres., receives bids Oct. 7 for building, French Broad Ave. near Patton St.; Chas. H. Neal, Engr.

Texas—Salvation Army, Major W. A. McIntyre, Territory Commr., Atlanta, Ga., plans buildings at Temple, Paris, Ranger, Abilene, San Angelo and Eastland within year; \$17,000 structure under way at Austin.

Tex., Beaumont—Fraternal Order of Eagles, R. M. Rimer, Pres., Pine and Tevis Sts., building to replace burned structure.

Tex., Quanah—Independent Order of Odd Fellows erect 2-story building; brick, store on first floor.

Bank and Office

Ala., Gadsden—Meeks Estate, Chas. E. Meeks, plans 10-story office building, Fourth and Chestnut Sts.

Ky., Louisville—Greater Louisville Savings & Building Assn. remodel 4-story brick building, 417 W. Market St., for quarters.

La., New Orleans—Favrot & Livaudais, Ltd., Archts., Hibernia Bank Bldg., has drawn plans to remodel Board of Trade Bldg., 320 Magazine St.; bids in Oct. 3.

Mo., Cumberland—Celanese Corp. of America received bids Oct. 6 for office building at Amelle; 60x120 ft., reinforced concrete and brick, 2½ stories, reinforced concrete floors with battleship linoleum, Barrett or concrete roof, metal sash; Geo. T. Sansbury, Archt.

Miss., Piquette—Lockett & Chachere, Archts., Balter Bldg., New Orleans, La., reported, drawing plans for 7-story office building.

N. C., Greensboro—United Cigars Company of America, W. F. Ross, representative, purchased Guilford Hotel property, S. Elm and W. Sycamore Sts.; reported, plans arcade and office building.

Tex., Coleman—Chamber of Commerce, Karl E. Wallace, Pres., interested in 5-story office building for oil companies and professional men.

Tex., Plainview—Mrs. H. E. Skaggs erect 4-story building, Seventh St. and Broadway; 50x140 ft.; 5 or 6 stores on first floor, 20 offices on each of upper floors; Kerr & Walsh, Archts., Amarillo.

Tex., San Antonio—Federal Reserve Bank have plans completed about 30 to 40 days for \$250,000 bank building, Villita and Navarro Sts.; rein. concrete, 2 stories and basement, 60x80 ft., tar and gravel roof; Atlee B. & Robt. M. Ayres, Archts., 626 Bedell Bldg.; W. E. Simpson & Co., Engrs. See Want Section—Building Material and Equipment. 7-21

Va., Arlington—Arlington Title Corp., reported, erect office building.

W. Va., Ripley—First National Bank erect building; Levi J. Dean, Archt., Simms-Keller Bldg., Huntington; bids in.

Churches

Ark., Clarendon—Presbyterian Church, J. P. Moore, Chmn., Bldg. Comm., remodel and erect 4-room addition to building; 1-story, new pine floors, boiler room, steam

heat; H. Ray Burks, Archt., Home Ins. Bldg., Little Rock.

D. C., Washington—Universalist General Convention, Rev. John Smith Lowe, Chmn., on Site and Building, 176 Newbury St., Boston, Mass., having plans drawn by Allen & Collins, 75 Newbury St., Boston, for \$1,000,000 National Universalist Church, 16th and S Sts.; further details about 3 weeks. 11-11-25

Fla., Coral Gables, Miami—First Christian Church, Rev. G. E. Salla, Pastor, soon start work on \$25,000 first unit of \$100,000 structure, Ponce de Leon and Avenue Menores; S. S. Hill, Archt.

Ga., Macon—Cherokee Heights Baptist Church, Jas. Estes, Chmn., Bldg. Comm., receive bids about 10 days for building, Napier Ave. and Courtland Place; cost \$45,000, main auditorium and classrooms; Claude W. Shelverton, Archt., Grand Bldg. 8-25

Ky., Mayfield—First Baptist Church having plans drawn by Hart, Freeland & Roberts, Ind. Life Bldg., Nashville, Tenn., for \$125,000 building.

Ky., Pikeville—Protestant Episcopal Church, Rev. C. M. Lever, Rector, plans building; raising funds.

La., Shreveport—Redeemed Baptist Church, Colored, erect building, Cain St. Address The Pastor.

Md., Baltimore—Grace M. E. Church, Dr. Chesteen Smith, Pastor, Carrollton Ave. and Lanvale St., and Roland Park M. E. Church, Dr. B. W. Meeks, Pastor, Roland Ave. and Oakdale Rd., consolidated and plan \$400,000 church adjoining site of present Roland Park Church; soon select building committee and architect.

Miss., Scooba—Baptist Church let contract to A. J. Tilghman, Derna, for brick building; 1 story, 32x60 ft. with two 12x28-ft. wings, rift pine floors, concrete foundation, composition roof; plans by Contr.; address proposals on furnishings, equipment, etc., to C. E. Bass, Scooba. See Want Section—Building Material and Equipment. 9-29

N. C., Charlotte—Myers Park Presbyterian Church, Richard Owen, Chmn., Bldg. Comm., care J. B. Ivey & Co., probably let contract within few weeks for first unit of \$250,000 structure; cost \$100,000, native stone, Old English slate roof, vacuum system steam heat; J. M. McMichael, Inc., Archt., Builders Bldg., Charlotte; Meyer & Mathieu, Archts., 316 Flatbush Ave., Brooklyn, N. Y. 6-30

N. C., Charlotte—Dilworth M. E. Church has \$20,000 permit for parsonage and remodeling work, 601 E. Boulevard. Address The Pastor.

Okla., Woodward—Presbyterian Church plans remodeling and erecting addition to building; install pipe organ; cost \$25,000. Address The Pastor.

S. C., Greenville—Mills Mill Baptist Church, J. D. Whitmire, Deacon, plans \$10,000 brick veneer building.

S. C., Hartsville—First Baptist Church, Dr. W. H. Morgan, Pastor, selected Wilkins & Hopkins, Florence, as architects for Sunday school. 8-11

S. C., Orangeburg—Christian Church, Rev. L. W. Buckley, Pastor, plans building, Russell St.

Tenn., Memphis—Halls' Baptist Church, Rev. O. W. Taylor, Chmn., Bldg. Comm., erect parsonage.

Tex., Corpus Christi—First Christian Church receives revised bids Oct. 10 from J. E. Dickey and W. C. Thrallkill for 1-story auditorium and 4-story Sunday school; brick, hollow tile and stucco, concrete foundation. 8-4

Tex., Corpus Christi—First Baptist Church, Sam Bass, member, Men's Brotherhood, plans \$50,000 Sunday school, 801 Mesquite St.

Tex., Port Arthur—Sixth Street Baptist Church, Colored, erect \$17,500 building, W. Sixth St. near Texas Ave.; Geo. Martin, Contr., 645 W. Fifth St.

Tex., Waco—First Methodist Church, Fifth and Jackson Sts., Dan Nicholson, Chmn. Bldg. Comm., plans building on new site or remodeling and erecting Sunday school addition to present structure.

Tex., Waco—Clay Avenue Methodist Church, Clay Ave. and 16th St., Clarence C. Hays, Chmn., Bldg. Comm., erect \$20,000 brick veneer building, site present structure; Birch

D. Easterwood, Archt., 614-15 Liberty Natl. Bank Bldg.

Tex., Wharton—Baptist Church considers \$20,000 building. Address The Pastor.

Tex., Waxahachie—Mt. Zion Baptist Church, Colored, has \$10,600 permit for building.

City and County

Ala., Mobile—City Council may erect police station; City Clerk advises nothing definite yet, would have to have bond election.

Ark., Bentonville—Benton County Quorum Court, W. R. Edwards, County Judge, receives bids Oct. 20 for courthouse; cost \$200,000; A. O. Clark, Archt., Rogers. 8-11

Ark., Fort Smith—City, J. H. Parker, Mayor, plans election on \$150,000 auditorium bonds. 6-9

Ark., Jonesboro—Craighead County Quorum Court, Mr. Weems, Judge, considers \$200,000 courthouse; may reach decision in Oct.; probably fireproof, rein. concrete, 2 stories.

Ark., Stuttgart—Arkansas County, J. C. Robbins, Chm. Bldg. Comm., erect \$52,000 courthouse; 2 stories and basement, 40x50 ft., brick, concrete and stucco, concrete and wood floors, composition built-up roof, steam heat; J. B. Barrett, Archt.

D. C., Washington—Department of Public Buildings and Public Parks, Navy Bldg., let contract at \$79,950 to G. G. Loehler Co., Franklin Natl. Bank Bldg., for bathhouse and pools, First and R Sts. N. E.; 1 story, 155x36.6 ft., concrete floors, spread footing foundation, built-up roof.

Fla., Inverness—Citrus County Board of Commrs. purchased 200-acre tract, State Road No. 5 near Inverness; plans county home and hospital.

Fla., Pensacola—City, Mr. Bayliss, Mayor, considers \$25,000 stadium.

Fla., Pensacola—Escambia County Board of Commrs. expend \$10,000 to improve courthouse.

Ga., Thomasville—Thomas County Board of Commrs. erect 2 dwellings, County Farm.

Miss., Jackson—City, R. M. Taylor, Park Commr., erect zoo building, Livingston Park; Frank P. Gates, Archt., Edwards Hotel Bldg.; bids received Oct. 6.

Mo., Clayton, St. Louis—St. Louis County probably vote Nov. 29 on \$12,750,000 bonds, including \$1,000,000 for county hospital, \$750,000 for jail and office space. 8-4

Mo., Columbia—W. O. Dysart erect brick veneer and tile residence, Edgewood Ave. and Stewart Rd.; 2 stories; Ira Davis, Contr.

Mo., Columbia—City votes Oct. 18 on \$375,000 city hall bonds; Eckel & Aldrich, Archts., Corby Bldg., St. Joseph; Bill & Traber, Asso. Archts., Columbia; probably 3 stories.

Mo., Kansas City—City Commission remodel and construct new front to Fire Engine House, No. 1, Santa Fe and Mulberry Sts.

Mo., Poplar Bluff—Butler County votes Nov. 15 on \$265,000 courthouse and jail bonds; N. S. Spencer & Sons, Archts., 304 S. Wabash Ave., Chicago, Ill. 9-15

N. C., High Point—City Council plans fire station, Davis St. near S. Main St.

Okla., Muskogee—City, Paul Williams, Mayor, will call special election on \$30,000 city hall bonds. 4-7

Okla., Muskogee—Muskogee County Commrs., W. H. Pritchett, County Clk., receive bids Oct. 26 for courthouse and jail, cost \$350,000; plans and specifications on file at office Mr. Pritchett; Layton, Hicks & Forsyth, Archts., Braniff Bldg., Oklahoma City; H. O. Valeur, Conslt. Archt., Manhattan Bldg., Muskogee. 8-18

Tenn., Tellico Plains—Town Council erect municipal building; jail, courtroom and offices.

Tex., Eastland—Eastland County, Ed. S. Pritchard, Judge, selected Lang & Witchell, Dallas, as architects for \$300,000 courthouse; brick, stone and reinforced concrete, probably 5 stories and basement. 9-29

Tex., El Paso—El Paso County, W. E. Robertson, Conslt. Engr., install \$10,000 heating system in courthouse.

Tex., Ft. Worth—City, R. D. Evans, Supt. recreation department, establish 20-acre municipal camp on lake; cost \$25,000 to \$100,000, wood flooring, concrete foundations; ready to make study of heating and power plant, electric light and power and plumbing. See Want Section—Building Material and Equipment.

Tex., Houston—City, O. F. Holcombe, Mayor, receives bids Oct. 5 for training tower for fire department; cost \$15,000, brick and reinforced concrete, 5 stories and basement, 20x20 ft., sprinkler system; plans and speci-

fications from Brickey, Wiggins & Brickey, Archts., 2103 Esperson Bldg. 9-29

Tex., Houston—City has low bid at \$13,410 from B. P. Panas for fire station, Bringham and New Orleans Sts.; W. A. Dowdy, City Archt. 9-22

Tex., Houston—City, J. C. McVea, City Engr., probably have plans started in few days by City Engineering Dept. for \$400,000 farmers' market.

Tex., Pharr—City erect \$10,000 fire station. Address City Council.

Tex., San Angelo—Tom Green County, J. T. Mathison, County Judge, receives bids Oct. 15 for courthouse; cost \$300,000; rein. concrete and steel, brick and Indiana limestone, 3 stories and basement, 205x66 ft., marble corridor floors, marble wainscoting, terrazzo floors, ornate plaster, steel sash for courtrooms, tile partitions, Barrett roof, copper flashing, steel stairs, concrete foundation; no elevators; separate bids for mechanical equipment covering plumbing, heating and electrical wiring; R. O. Jamieson, Engr., S. W. Life Bldg., Dallas; plans and specifications from Anton F. Korn, Archt., Thomas Bldg., Dallas; also from offices County Judge or B. M. Morgan, Asso. Archt., San Angelo Nat. Bank Bldg., both San Angelo. 9-22

Tex., Texas City—City votes Oct. 29 on \$100,000 city hall and auditorium bonds. 9-29

W. Va., Moorefield—Town votes Oct. 8 on \$13,500 community building bonds.

Dwellings

Ala., Birmingham—T. C. Brasfield, 5108 Gary Ave., erect \$10,500 residence, 48th St. and Seventh Terrace, South.

Ala., Birmingham—Mr. Allison, care Nelson Real Estate and Investment Co., 2032 N. Fourth Ave., erect frame residence, Shades Mountain; 2 stories, 42x36 ft., composition roof, wood floors, steam heat; J. E. Sallee, Archt., 2109 N. Fifth Ave.

Ala., Birmingham—Jemison & Co., 221 N. 21st St., erect stone veneer, stucco and tile residence, Mountain Brook Estates; 2 stories and basement, 85x25 ft., built-up roof, steel sash, steam heat; J. C. Halstead, Archt., Lincoln Life Bldg.

Ark., Booneville—R. M. Harvey erect face brick veneer residence; 1 story, pine, oak and tile floors, shingle roof; Ye Planry, Inc., Archt., 1713½ Live Oak St., Dallas, Tex.

Ark., Camden—W. E. Pryor erect face brick veneer residence; 1 story, pine and oak floors, shingle roof; Ye Planry, Inc., Archt., 1713½ Live Oak St., Dallas, Tex.

Ark., Fort Smith—Walter Hinton, 201 N. 14th St., erect brick veneer residence, 931 Adelaide Ave.; 9 rooms, cost about \$10,000.

Ark., Fort Smith—Harry Warner, Merchants Natl. Bank Bldg., erect brick veneer Colonial residence, Adelaide Ave.; composition shingle roof, dumb waiter; cost about \$10,000; Chris Reichardt, Archt., First Natl. Bank Bldg.

Ark., Fort Smith—Chas. Wood, N. 14th St., erect \$15,000 residence, Fishback Place.

Ark., Little Rock—W. G. Hall, Boyle Bldg., plans \$65,000 residence, Crestwood Drive; brick and stone, 2 stories and basement, oak and tile floors, tile roof, steam heat, garage and servants' quarters; Sanders & Ginochio, Archts., Hall Bldg.

Ark., Pine Bluff—S. H. Trippett erect \$20,000 residence and garage; stucco, 2 stories and basement, oak floors, tile baths, wood shingle roof, hot water heat; Durward Kyle, Archt., Natl. Bank Bldg.; Davis Quinn contract on cost-plus basis.

D. C., Washington—Estelle Drane, 421 Mas. Ave. N. W., has \$14,000 permit for brick dwellings, 3112-14 Thirty-eighth St. N. W.; 2 stories.

D. C., Washington—A. M. Duvall, 1945 Calvert St. N. W., has \$11,000 permit for brick residence, 1229 Tenth St. N. W.; 2 stories.

D. C., Washington—C. L. Fowler, 1401 Lawrence St. N. E., has permit for 2 frame dwellings, 3615-19 Fifteenth St. N. E.; 2 stories; total cost \$10,000.

D. C., Washington—Fred H. Gore, 819 15th St., erect \$25,000 stone residence, 2842 Allendale Place N. W.; 2 stories.

D. C., Washington—Frank Postore erect 2 concrete block and frame dwellings, 3703-05 Twenty-fourth St. N. E.; 1 story; total cost \$11,000.

D. C., Washington—Dr. D. L. Renfero has \$10,000 permit for brick residence, 1516 Twelfth St. N. W.; 2 stories.

D. C., Washington—H. P. Safford has \$12,000 permit for brick and tile residence, 5358 Twenty-eighth St. N. W.; 2 stories.

D. C., Washington—Robt. H. Sanford, Lenox Bldg., has \$14,500 permit for brick

residence, 3115 Thirty-fourth St. N. W.; 2 stories.

D. C., Washington—Shannon & Luchs, 1435 K. St., N. W., have \$40,000 permit for 5 brick dwellings, 3700-08 R St. N. W.; 2 stories.

D. C., Washington—Max Sugar, 1905 Kenyon St. N. W., has permit for 11 brick and tile dwellings, 105-23 Longfellow St. and 5600 First St. N. W.; 2 stories; total cost \$55,000.

D. C., Washington—Wenger Bros., 1627 K St. N. W., have permit for 10 brick dwellings, 3827-45 Cathedral Ave. N. W.; 2 stories; total cost \$10,000.

Fla., Dade City—W. T. Sherman, St. Petersburg, plans bungalow, Griffin Park.

Fla., Jacksonville—Edw. W. Lane, Atlanta Natl. Bank, erect English type residence; brick, terra cotta and limestone; Marsh & Saxelby, Archts.; bids Oct. 1.

Fla., Miami Beach—Southern Cross Construction Co., Jas. P. Mear, Pres., erect 4 dwellings, Isle of Normandy; Spanish type; cost \$10,000 each.

Ga., Atlanta—Atlanta Realty and Construction Co., Healey Bldg., erect 2 veneer dwellings, 1015 Deckner St. S. W., and 802 Virgilela Ave. N. E.; 1 story; total cost about \$10,000.

Ga., Hepzibah—F. G. Rhodes erect \$30,000 residence near Hepzibah; Georgian type, brick veneer, 2 stories, tile roof, hot water heat; Scroggs & Ewing, Archts., Southern Finance Company Bldg.; Branch & Smith, Contrs., 334 Walker St., both Augusta.

Ga., Louisville—Wright W. Abbot, care Phillips & Abbot, erect 3 bungalows, Peachtree Road.

Ky., Louisville—Albert McMillan erect \$25,000 residence, 300 block Cherokee Garden.

La., New Orleans—A. F. Maniscalco, 2323 Danneel St., plans several double cottages.

La., New Orleans—M. Gomez, 2011 Deniston St., plans duplex, State St. Drive extension; gen. bids about 4 months.

Md., Baltimore—Helen W. Baker erect 7 brick dwellings, S. W. side Denmore Ave. S. E. of Hayward Ave.; 2 stories; total cost \$25,000.

Md., Baltimore—Dr. Wm. L. Millea, 1020 N. Calvert St., purchased homestead, Belvedere Ave., near Charles St. Ave.

Md., Mount Washington, Baltimore—Mount Washington Summit Developing Co., Harry K. Nield, Pres., Old Pimlico Rd., plans number dwellings, Mount Washington Summit.

Mo., Kansas City—Arthur H. Clark, 19 E. Concord St., erect \$23,000 residence, 805 W. 58th St.; 2 stories, 56x51 ft., brick and stucco.

Mo., Kansas City—Claud R. Box, 4116 Flora St., erect residence, 4501 Madison St.; cost about \$10,000.

Mo., St. Louis—J. A. Gewinner, care Hoerner, Baum & Froese, Archts., 3605 Laclede Ave., erect \$11,000 frame residence; 2 stories and basement, 28x32 ft., concrete foundation, oak floors, tile bath, wood shingle roof, hot air heat; bids in.

Mo., St. Louis—W. A. Hellmick erect \$25,000 brick residence, Kingsbury Blvd. and Williams St.; 2 stories and basement, 42x33 ft., stone foundation, terrazzo and oak floors, slate roof, 3 tile baths, tile wainscoting, showers, incinerator, electric refrigerator; Hiram Phipps, Archt., 4162 Castleman St.; bids in.

Mo., St. Louis—Chas. Lucas, care Study & Farrar, Archts., 1363 Arcade Bldg., erect frame residence, Litzinger Rd.; 2 stories and basement, 75x40 ft., oak floors, tile bath, steam heat.

Mo., St. Louis—W. Malkemus, care Clarence A. Koenig, 2036-A Russell Ave., erect \$16,000 residence, Northmoor; 2 stories and basement, 31x37 ft., cement tile roof, vapor heat, Vitrolite bath, electric refrigerator, incinerator; bids in.

Mo., University Park—Frank Haag, care Julius E. Tarling, Archt., 2806 N. Grand Blvd., erect \$12,000 brick residence, Stanford Ave.; 1½ stories and basement, 34x38 ft., rubble stone foundation, slate roof; bids in.

N. C., Durham—R. J. Mebane erecting country residence, Hope Valley; Aymar Embury, Archt., New York.

N. C., Hickory—Robt. Coulter erect 8-room residence, 13th St.

N. C., High Point—D. H. Parsons erect \$12,000 residence, Garriss Ave.

N. C., Winston-Salem—Alonzo Bagby, 735 N. Cherry St., erect \$14,000 residence, Springdale Ave.; 10 rooms.

N. C., Winston-Salem—Thos. Z. Lauten, 125 Spruce St., erect \$10,500 residence, Stratford Rd.; 8 rooms.

N. C., Winston-Salem—H. G. Pashal erect \$20,000 residence, Buena Vista Rd.; 9 rooms.

Mo., Kansas City—R. H. Shackelford erect \$10,000 residence, 646 W. 67th St.

N. C., Winston-Salem—W. T. Shelton, 429 E. 15th St., erect 7-room residence, Oaklawn Ave.; cost about \$10,000.

N. C., Winston-Salem—N. B. Williams, City Market, erect \$11,300 residence, Elizabeth Ave.; 10 rooms.

N. C., Winston-Salem—G. E. Woodruff erect \$10,000 residence, Shady Lane; 8 rooms.

N. C., Winston-Salem—I. A. Austin, 944 Hawthorne Road, erect \$14,000 residence, Oaklawn Ave.; 7 rooms.

Okla., El Reno—John Petree probably soon let contract for residence; cost \$50,000, brick veneer, 2 stories and basement; Harry Reynolds, Archt., Mercantile Bldg., Oklahoma City.

Okla., Muskogee—Perry Crider erect two 5-room bungalows.

Okla., Muskogee—Otto Orman erect 5-room bungalow, 1207 Chestnut St.; Harry Clements erect 5-room bungalow, 1506 E. Okmulgee St.

Okla., Okmulgee—Gus Forbes, 1302 E. Ninth St., erect \$20,000 residence; brick, tile and concrete, 2 stories and basement; R. E. Richter, Archt., 1217 E. Ninth St.; bids in.

Okla., Okmulgee—C. E. Reynolds, Commerce Bldg., erect \$10,000 frame and stone residence; R. E. Richter, Archt., 1217 E. Ninth St.

Okla., Tulsa—Exchange Mortgage and Investment Co., Exchange Natl. Bank Bldg., erect 6 English type dwellings, 2400 block N. Boston Place; cost \$4250 each.

S. C., Mullins—Macedonia Methodist Church erect parsonage, Church St.; L. McD. Hicks, Archt., Florence; bids in Oct. 3.

Tenn., Memphis—Joe Mensl, 3509 Tutwiler St., erect 3 brick veneer dwellings, 1525 Walker and 1032-36 Rayner St.; cost \$5000 each; garage \$100, heating \$500.

Tenn., Memphis—John L. Kebke, 320 S. Cleveland St., erect \$15,000 brick and stone residence; 1 story and basement, concrete foundation, composition roof; Estes W. Mann, Archt., Cotton Exchange Bldg.

Tenn., Memphis—C. A. Gerber, 1265 Poplar Ave., 1516 Bank of Commerce Bldg., considers residence, Macon Rd.; Joe T. Wallace, Archt., 1516 Bank of Commerce Bldg.

Tenn., Memphis—John B. Kebke, 320 S. Cleveland St., erect brick veneer and stucco residence and garage; 1 story and basement, about 65x60 ft., oak floors, tile bath, composition shingle roof; Estes W. Mann, Archt., 203 Cotton Exchange Bldg.

Tenn., Memphis—W. F. Wright, care J. Frazer Smith & H. M. Burnham, Archts., Goodwyn Inst. Bldg., erect brick veneer residence, Chickasaw Gardens; 2 stories and basement, about 64x40 ft., oak floors, composition shingle roof, tile bath, hot water heat, garage and servants' quarters.

Tenn., Nashville—R. L. Bissinger, care Asmus & Clarke, Archts., Nashville Trust Bldg., take new bids later on brick and stone residence, Harding Rd. and Kenner Ave.; 2 stories and basement, 74x37 ft.

Tenn., Nashville—Robt. Cain, Franklin Rd., erect hollow tile, stucco and concrete residence, Glen Levin Rd.; 1 story and basement, 41x45 ft., Indiana or Alabama cut stone trim, Mohawk asbestos shingle roof; Donald Southgate, Archt., 1101 Nashville Trust Bldg.; bids in.

Tenn., Oakdale—John Polston rebuild residence noted burned.

Tex., Amarillo—C. S. Lambie & Co., Amarillo Bldg., erect \$12,000 residence, 2213 Hughes St.

Tex., Amarillo—F. E. Marsalis erect \$11,000 residence, 1500 Travis St.

Tex., Beaumont—Dr. J. W. Outlaw, 615 Perlstein Bldg., erect \$10,000 residence, Broadway; 7 rooms, brick veneer.

Tex., Brownsville—Capt. R. C. Tyrrell opens bids about Oct. 5 for brick and frame residence; cost \$15,000; 2 stories, 21x126 ft., tile, oak and yellow pine floors, rein. concrete foundation, tile and built-up roof; Wm. D. Van Slicen & Co., Archts., 9 Maltby Bldg., Brownsville. Address Archt. See Want Section—Building Materials and Equipment.

Tex., Dallas—Chas. D. Turner erect \$12,500 brick residence, 6024 Connerly Drive, University Park.

Tex., Fort Worth—L. A. Henderson, 1647 W. Magnolia St., erect \$20,000 brick veneer residence, 2305 Menford Court West.

Tex., Fort Worth—W. S. Lorimer, 1105 Clara St., erect \$18,000 brick veneer residence, 2240 Winton Terrace.

Tex., Houston—W. F. Cawfield erect 3

brick veneer dwellings, 1709-14-22 Brum St.; 5 rooms, cost \$4000 each.

Tex., Houston—R. R. Dennis, Second Natl. Bank Bldg., erect brick veneer residence, River Oaks; stone trim, 14 rooms, 2 stories; Sam H. Dixon, Jr., Second Natl. Bank Bldg., Archt.; bids in.

Tex., Houston—Prof. Edw. R. C. Miles, Rice Institute, plans residence, Rice Court.

Tex., Houston—Houston Lumber and Building Co., 3120 Washington St., erect 6 frame dwellings and garages, 3911-15-19 Jefferson St.; 5 rooms and bath; also 4 dwellings, 200 block S. 75th St.; total cost \$23,000.

Tex., Houston—Mrs. E. J. Wilkerson erect \$12,000 duplex and garage, 1812 Rosedale St.; 2 stories, 12 rooms, brick veneer.

Tex., Port Arthur—L. G. Swanson, Ch. Electrician, Texas Co., erect \$10,000 residence, Del-Mar addition.

Tex., San Antonio—Mrs. Amye Bozarth, 815 Park Hill Drive, E., erect frame and stucco residence, Park Hill Drive; 2 stories, tile roof; Wilson & Hugman, Archts., Texas Bank Bldg.

Va., Hopewell—T. A. Burford erect number dwellings, connection with development, Sunnyside Park; Clodfelder & Schisler, Sngs.-Landscape Archts., 923 E. Main St., Richmond, and P. O. Box 845, Hopewell.

Government and State

Ala., Selma—Chamber of Commerce interested in agricultural experiment station in Selma section; State to appropriate \$25,000 for buildings, etc., upon donation of 200-acre tract.

D. C., Washington—Office of Custodian, U. S. Hygienic Laboratory, G. W. McCoy, Custodian, receives bids Oct. 10 for laboratory; specifications from Custodian.

Md., Frederick—Maryland National Guard erect new head house with roof garden at rear of Armory and recondition swimming pool and bowling alleys; cost \$18,000 to \$20,000.

N. C., Wilson—Treasury Dept., Jas. A. Wetmore, Acting Supervising Archt., Washington, D. C., receives bids Oct. 10 for additional improvements at post office.

S. C., Charleston—Fort Moultrie, Lieut.-Col. Fred W. Bugbee, Commandant, erect \$12,000 theater; brick, steam heat. (Lately noted under Ga., Savannah) 9-29

Hospitals, Sanitariums, Etc.

Ala., Birmingham—Norwood Clinic erect \$10,500 clinic, 25th St. and 16th Ave., North.

Fla., Jacksonville—Grover C. Mahoney Post, American Legion, Justin Langillo, Chmn., Hospital Comm., interested in general hospital.

Ga., Atlanta—Henrietta Eggleston Memorial Hospital, Beverly M. DuBose, member, Board of Trustees, have plans nearing completion for \$175,000 children's hospital, Forrest Ave. Extension and Fortune St.; Spanish and Cuban type, 3 stories, 2 ward beds, 8 private rooms; Morgan, Dillon & Lewis, Archts., Grant Bldg. 8-18

La., New Orleans—Presbyterian Hospital of New Orleans received bid Oct. 6 (extended date) at office Rathbone DeBuys, Archt., Hibernia Bldg., for James M. Batchelor Bldg.; details and estimating contracts lately noted. 9-22

Md., Baltimore—Johns Hopkins Hospital, Dr. Winford H. Smith, Supt., probably call bids in about 1 week for enlarging kitchen and mess building; cost about \$300,000, 2 additional floors to present 4-story structure; dining rooms for nurses and physicians on first floor, employees dining rooms on second floor, main kitchen building on third and bakery on fourth; Jos. Evans Sperry, Archt., Calvert Bldg. 9-15

Md., Cumberland—City, Geo. G. Young, Sec., Memorial Hospital, expects plans in next three weeks for \$500,000 hospital; Zant-zinger, Borie & Medary, Archts., Otis Bldg., Philadelphia, Pa.; Dr. S. S. Goldwater, Consultant, Mt. Sinai Hospital, New York. 5-25

N. C., Greensboro—St. Leo Hospital, Chas. A. Hines, Chmn., Citizens' Hospitalization Comm., raise \$20,000 for repairs and improvements to hospital.

Tenn., Memphis—United States Veterans' Bureau, Frank T. Hines, Director, receives bids Oct. 25 at Constr. Div., Room 791, Arlington Bldg., Washington, D. C., for refrigerating plant, U. S. Veterans' Hospital.

Tex., Abilene—State Board of Control, Dr. H. Harrington, Chmn., Austin, receives bids Oct. 14 for 2-story fireproof building, Abilene State Hospital, for offices and apart-

ments; 2 stories, cost \$30,000; plans and specifications from David S. Castle Co., Archts.-Engrs. 7-7

Tex., Houston—Sisters of Charity of Incarnate Word, Sister M. Raphael, Supt. of Nurses, having plans drawn by Maurice J. Sullivan, Second Natl. Bank Bldg., for \$250,000 nurses' home, Crawford and Pierce Sts.; brick, accommodate 150. 9-15

Va., Marlon—W. R. D. Moncure interested in community hospital.

Va., Virginia Beach—Association of National Investigation having plans drawn by Rudolph, Cooke & Van Leeuwen, Arcade Bldg., Norfolk, for \$30,000 frame building as first unit of sanitarium for psychological research; about 25 rooms, baths, laboratories and wards.

Hotel and Apartments

Ala., Birmingham—B. M. Ruff erect \$16,000, 2-story, brick veneer apartment house at 16th Ave. and 22nd St. South.

Ark., Camden—G. S. Rumph purchased 3-story, brick Newton Hotel, Adams and Jackson Sts., will remodel and improve.

D. C., Washington—Frank Tomlinson, 1216 10th St., N. W., has permit for \$300,000, 5-story apartment building at 1630 Park Road, N. W.

La., Vinton—Dr. J. W. Shaw, Prop. of Hotel Shaw recently burned at \$20,000 loss, plans to rebuild.

Miss., Brookhaven—D. F. Gilly, Propr., Inez Hotel, receives bids Oct. 10 for additions and alterations, cost \$50,000; 3 stories, brick and frame, concrete foundation, tile, concrete and wood floors, composition roof, 25 bedrooms each with bath, 1 passenger elevator, vacuum steam heat; Emmett J. Hull, Archt., Merchants Bank Bldg., Jackson. 8-18

Mo., Springfield—F. E. Morse, 114 S. Denver St., Tulsa, Okla., owner of Ozark Hotel on Commercial St., will remodel and rebuild.

N. C., Charlotte—Lex Marsh, Jr., Pineville Road, erect \$11,000, 16-room, brick veneer apartment house at 629 Hawthorne Lane.

N. C., Charlotte—Walter Lambeth, Textile Real Estate Corp., Kenneth Tanner, Pres., Rutherfordton, purchased property at N. W. cor E. Trade and N. Brevard Sts.; no immediate improvements planned; reported, will later build either a hotel or apartment with stores on ground floor.

N. C., Wilmington—H. T. Ireland, Jefferson Bldg., Greensboro, lessee of Carolina Beach Hotel, recently burned at \$125,000 loss, advises regarding rebuilding: "Decision not reached."

Okla., Seminole—C. J. Harper has preliminary plans started for 5-story, brick, stone and reinforced concrete hotel building; A. C. Davis & Son, Archts., Shawnee.

Okla., Wewoka—A. C. Davis & Son, Shawnee, completed plans; probably take bids about Oct. 15 for \$50,000, 4-story, 40-room addition to Aldridge Hotel, care Propr.

Tenn., Memphis—T. E. Beard, 3330 Hardin St., erect \$16,000, brick veneer, 8-apartment house at 28 N. Waldran St.

Tex., Del Rio—F. L. Childs and Mrs. M. E. Faust have preliminary plans in progress for John Marriott, Frost Bldg., San Antonio, for 6-story, 90-room, fireproof hotel building; each room with shower or bath.

Tex., Goose Creek—Hockenbury System, Inc., Harrisburg, Pa., will make preliminary survey to determine character and size of hotel needed; address Hotel Committee of Tri-City Chamber of Commerce.

Tex., Plainview—Hockenbury System, Inc., Harrisburg, Pa., will make survey of city to recommend character and size of hotel needed; R. A. Underwood, Guy Jacob and C. G. Goodman, members local committee.

Tex., San Antonio—H. J. Shearer, 303 Mary Louise Drive, selected Henry T. Phelps, Hicks Bldg., prepare plans for remodeling and enlarging hotel at Garden and Nueva Sts.; build stores on Nueva St. side; rearrange into efficiency apartments.

Va., Virginia Beach—Mrs. E. Gray, owner of Chalfonte Hotel, has plans in progress by Rudolph, Cooke & Van Leeuwen, Arcade Bldg., Norfolk, for \$25,000 addition; 100 rooms, baths, new grill and dining room, shop on lower floor.

Va., Virginia Beach—Laskin-Sigle interests, owners of the Pinewood, have plans in progress by Alex O. Ferebee, Arcade Bldg., Norfolk, for \$150,000, brick, fireproof addition; provide 100 rooms and 100 baths.

Va., Virginia Beach—Rudolph, Cooke & Van Leeuwen, Archts., Arcade Bldg., Norfolk, open bids this week for \$30,000, brick, 6-family

apartment house for Lash & Knapp on 25th St.

W. Va., Charleston—W. B. Geary, A. S. Thomas, 1412 Kanawha St., John Fields and A. W. Cox, 722 Capitol St., promoting construction of \$1,150,000, 13-story hotel at cor. Capitol and Washington Sts.; 200 rooms each with bath, fireproof, lobby and store rooms on ground floor; corporation to be known as Community Hotel Corp.; survey made by Hockenbury System, Inc., Harrisburg, Pa.

Miscellaneous

Ark., Eureka Springs—Sam Leath, Mgr. of tourist bureau, announced plans for 50 rustic cabins in 2 tourist camps.

Ark., Hot Springs—Boys' Athletic Club, Capt. Richard L. Gaffney, director of activities, made tentative plans for new gymnasium, Belding and Francis Sts.

Ga., Albany—Estate of Sam Farkas plans \$15,000, 2-story, brick, 33x105-ft. funeral home on Broad St., to be leased to Albany Undertaking Co.

Ga., Savannah—Investment Corp., Thomas P. Safford, Pres., 123 Bull St., contemplates yacht club development on Turner's Rock site, include clubhouse, etc.

Miss., Jackson—Mississippi Methodist Orphanage, B. F. Lewis, Supt., have plans in 30 days by N. Austin, 301 Daniel Bldg., for \$25,000, brick, 2-story boys' home; composition roof, plastered interior.

Mo., Kansas City—Linwood Boulevard Presbyterian Church, Dr. Harry C. Rogers, Pastor, planning \$100,000 Linwood Home for Convalescent and Employed Women, at S. E. cor. Linwood Blvd. and Michigan Ave.

Okla., Oklahoma City—Oklahoma State Fair Assn., Ralph Hemphill, Sec., planning to erect \$150,000, 75x40-ft. clubhouse for 4-H Clubs.

Okla., Owasso—Colonial Country Club has plans by L. E. Blue, Mayo Bldg., Tulsa, for \$35,000, 2-story and basement, 62x80-ft. clubhouse.

Tex., Harlingen—Woman's Chamber of Commerce, care Mrs. T. S. Herren, considering plans for new clubhouse.

Tex., Houston—William H. Scholl, Pres. of Scholl's Cafe, leased basement and first floor of Walker Ave. annex to Electric Building, install cafe to seat 135; refrigeration system, automatic elevator, electric fans, incinerator, etc.; lighting system by A. T. Vick Co.

Tex., Hubbard—L. J. Willingham, Corsicana, will erect clubhouse in connection with golf course.

Tex., San Antonio—Avalon Country Club, Porter Loring, Pres., 206 Jefferson, has plans by Ralph H. Cameron for \$200,000 rustic clubhouse at Spettel's Island, Medina Lake; native uncut stone and cedar.

Railway Stations, Sheds, Etc.

Ark., Fort Smith—A. F. Steiner has permit for freight depot at intersection N. Second and A Sts.

Schools

Ala., University—University of Alabama planning early construction of first unit of building for School of Commerce; \$100,000.

Ark., Harrison—Chamber of Commerce planning campaign to locate normal school created by last session of Legislature at Harrison; Fred Stewart, Chmn. budget and finance committee; W. H. Lewis, Chmn. location committee.

Ark., Pine Bluff—State Department Board, Little Rock, will sell \$275,000 worth of notes to construct new buildings at Agricultural, Mechanical and Normal School for Negroes; proceeds from note sale and sale of old school plant to be supplemented by sufficient funds from General Education Board, to build \$500,000 plant on new site.

Fla., Kendall—Dade County Board of Public Instruction soon have plans by Robertson & Patterson, Calumet Bldg., both Miami, for \$20,000, 1-story, concrete and tile, 50x95-ft. school building; concrete foundation, concrete and pine floors, built-up roof; date of opening bids not set; equipment and furnishings cost \$2000. See Want Section—Building Materials and Equipment. 9-29

Fla., Jensen—School District No. 1 voted \$30,000 bonds for new school building; Edward Mapp, Supt. Martin County Board of Public Instruction, Stuart. 9-8

Fla., St. Augustine—St. Johns County Board of Public Instruction, Central Grammar School building, receives bids until Oct. 21 for following work: (1) Erection of elementary school for colored children in West Augustine, including sanitary equipment; (2) addition to Hastings High School, including additions to heating equipment; (3) erection of grammar school at Hastings Col-

ored School, Hastings, including sanitary equipment; (4) addition to Central Ave. Colored School, including additions to heating equipment; proposals may be made on all or any of above work; plans and specifications from Fred A. Hendrick, Archt., Jefferson Bldg.

Fla., Venus—Venus School District defeated \$10,000 bond issue for completing and furnishing Junior High School; Highland County Board of Public Instruction, Sebring. 9-1

Ga., Albany—Board of Education, S. R. deJarnette, Sec., receives bids Oct. 11 for \$25,000 negro school building; Lockwood & Poundstone, Archts., Forsyth Bldg., Atlanta. 9-15

Ga., Milledgeville—Georgia State College for Women planning construction of \$100,000 dormitory.

Ky., Silver Grove—Silver Grove Graded School Board, care E. A. DeLong, receives bids Nov. 1 for 10-room, brick and concrete, fireproof school building; plans and specifications from Mr. DeLong.

Md., Brunswick—Frederick County Board of Education, Frederick, soon call for bids on auditorium at school building; also plan addition next spring; \$50,000 to \$60,000.

Md., Westminster—Carroll County defeated \$600,000 school bond issue; address County Board of Education.

Miss., Tupelo—Dr. G. W. Chapman, Pres. of Tupelo Military Institute, plans immediate rebuilding of dormitory burned at \$40,000 loss.

Mo., Columbia—Chester L. Brewer, director of Athletics of University of Missouri, announced construction start within a year on \$250,000 field house; 1 story, 300x125 ft.

Mo., Kansas City—Board of Education, I. I. Cammack, Supt. of Schools, conferred with Charles A. Smith, school archt., on tentative plans for negro high school building, 22nd St. and Woodland Ave.

N. C., Charlotte—Johnston C. Smith University, Dr. H. L. McCrorey, Pres., launched campaign to raise \$20,000 for construction of stadium to seat 10,000 persons.

N. C., Durham—Board of Education, Frank M. Martin, Supt., considering school building for Holloway Street section.

N. C., Wendell—Wake County Board of Education, John C. Lockhart, Sec., Raleigh, receives bids Oct. 6 for 6-teacher community school building, near Wendell.

N. C., Winston-Salem—Winston-Salem Teachers' College, Columbia Heights, S. G. Atkins, Principal, soon call for bids on \$40,000 dormitory; Northrup & O'Brien, Archts., Starbuck Bldg.

Okla., Briartown—Muskogee County Board of Education, Muskogee, planning new school building on site of structure burned.

Okla., Seminole—Butler Co., Herskowitz Bldg., Oklahoma City, completed plans for \$60,000 High School building for Board of Education; brick and concrete, composition roof, pine floors and finish, structural and reinforcing iron, steam heat. 8-4

Tenn., Fayetteville—City, Mayor M. W. Thornton, voted \$50,000 bonds for Central High School.

Tenn., Knoxville—Board of Education, L. H. Spilman, Pres., has low bids from W. M. Hunt Co., at \$15,393 and \$19,390, for addition of 4 rooms and cafeteria to Bell House School, and 3 rooms and gymnasium to Mountain View School; McGinn & Rich, low on plumbing and heating both, at \$6356 and \$7156; also has low bid from C. L. Oliver, at \$4326, for 2-room frame school at Edgewood. 9-29

Tenn., Memphis—Longview Heights Civic Club, F. W. Lange, Pres., 568 Mallory St., will erect temporary school building in subdivision.

Tenn., Sweetwater—Monroe County Court, Madisonville, authorized Board of Education issue \$16,000 in warrants for completion of High School building; outside finished; 2 stories, brick, 270x70 ft.; Manley, Young & Myers, Archts., Knoxville.

Tenn., Trenton—W. P. Flatt, Supt. of City Schools, launched campaign for building gymnasium at Peabody High School.

Tenn., Wartrace—School Board purchased lot for new school building for negroes.

Tex., Canyon—West Texas State Teachers College, Dr. J. A. Hill, Pres., has plans in progress, ready for bids about Nov. 1, for \$300,000, 3-story, brick, stone and concrete, 216x100 ft. educational building; concrete foundation, composition floors, tile roof, equipment and furnishings cost \$25,000; E.

F. Rittenberry, Archt., 301 Blackburn Bldg., Amarillo. 9-22

Tex., Cedar Bayou—Harry D. Payne, Archt., 710-11 Kirby Bldg., Houston, advises regarding \$50,000 High School; Board of Education sold its bonds; funds will probably be available latter part of Oct.; plans and specifications now in progress. 9-8

Tex., Dallas—Southern Methodist University, Dr. H. M. Whaling, Vice-Pres., soon launch campaign for \$1,000,000 building program; plan 7 new buildings including library, separate buildings for school of engineering and school of law, chemistry laboratory, dormitory for theological students, and infirmary; plans for engineering building complete, call for 2-story structure, cost \$50,000.

Tex., Fort Worth—Board of Trustees Texas Christian University, Edward McShane Waits, Pres., endorsed building program for next 10 years including erection of auditorium, an enlarged stadium, and science building.

Tex., Houston—Rev. W. L. Dickson, Gen. Supt. of Dickson Orphanage and Industrial School for negro children, raising \$10,000 toward construction of administration building and purchase of equipment for industrial training.

Tex., Panhandle—School Board, W. R. Bradford, Supt., considering calling bond election for new school buildings.

Tex., Port Arthur—Port Arthur Independent School District voted \$1,500,000 school bonds; major buildings tentatively planned are: \$570,000 Junior High School building on Lambert site; \$150,000 building at Seventh St. and Orange Ave.; new \$50,000 building in Edgemore addition; \$60,000 building at Portacres; \$350,000 enlargement of present High School; \$70,000 enlargement of Tyrrell building; \$90,000 enlargement of Lincoln building; new site, \$45,000; equipment, \$115,000. Address H. O. Preston, Pres. 9-22

Tex., Sherman—City voted \$125,000 bonds for Washington school building, contain 16 classrooms, cafeteria, study hall, auditorium, storerooms, etc.; William Fleming, Pres., School Board. 9-29

Tex., Texas City—City votes Oct. 29 on \$150,000 high school bonds. Address Board of Education. 9-29

Tex., Waco—L. A. Woods, Supt. McLennan County Board of Education, announced work soon start on \$30,000 school for Woodlawn, Mills, Eddy and Bruceon districts.

Tex., Yoakum—Board of Education, care L. B. McGuffin, Supt., contemplates bond election for new school to accommodate 600.

Va., Alexandria—City School Board soon ask bids for \$40,000 school building at Russell Road and Morgan Place, Rosemont; 6 classrooms and auditorium.

Va., Martinsville—Henry County Board of Supervisors ratified \$10,000 loan for school improvements in Horse-pasture District.

Va., Richmond—State Board of Education approved \$201,000 in loans from literary fund for erection of school houses in 13 counties; include following: Spencer school, Henry County, \$10,000; Carson, \$6000, and McKenney-Sunnymede, \$15,000, in Dinwiddie County; Oakland, \$15,000; Garden City, \$3000; Back Creek, \$6000, and Vinton, \$25,000, all in Roanoke County; Arritts, \$18,000, and Barber, \$18,000, in Allegheny County; Town of Bedford, \$15,000, in Bedford County; Parksley, \$15,000, in Accomac County; Carson, \$9000, Prince George County.

W. Va., Buckhannon—Boards of Trustees of West Virginia Wesleyan College, Buckhannon, and Wesley Foundation at West Virginia University plan immediate campaign for \$500,000; provide new library building and additional dormitory facilities. Address Dr. Homer E. Ward, Pres. of Wesleyan.

Stores

Ala., Birmingham—Aaron Cohen erect \$10,000 store, 16th St. and Eighth Ave. North.

Ala., Gadsden—Sterchi Bros. Furniture Co. leased Hagin Bldg., Broad and Fifth Sts., build new front and improve, cost \$10,000.

Ga., Waycross—B. J. Head, Alma, will erect 2 brick store buildings.

Fla., Tampa—H. A. Barksdale, 2104 Grand Central St., erect \$11,400 store on Michigan St.

Ky., Louisville—T. P. Taylor, 59 Hill Rd., erect \$100,000, 40x200 ft. store building on S. Fourth St.

Ky., Louisville—Ben Snyder, Pres., of Ben Snyder, Inc., 2132 Barringer St., purchased property fronting 70-ft. on Market St., ad-

joining present store, plans to erect \$500,000, 6-story building.

Md., Baltimore—Cityco Realty Co., John J. Hurst, Pres., 7 St. Paul St., purchased Madison Street Presbyterian Church at 104 W. Madison St., remodel for commercial uses.

Miss., Jackson—Jack and R. G. Kennington, 827 Pinehurst St., and A. B. Cook, Heidelberg Hotel, erect brick present building on Capitol St.; 36x150 ft.

Miss., Jackson—D. C. Simmons, 843 N. President St., planning business building on Capitol St.

Miss., Jackson—Dr. J. P. Wall, Edwards Hotel Bldg., planning commercial building on 50x150 ft. lot; 1 story, brick.

Mo., St. Louis—Richard Datta, representing local syndicate, leased N. W. cor. 19th and Olive Sts.; plans to wreck present building; replace with modern structure.

Mo., St. Louis—Hugo Wurdach, Railway Exchange Bldg., owner of property at S. E. cor. 22nd and Olive Sts., plans development.

N. C., Charlotte—W. D. Blair, Rosewell Apts., M. D., erect \$12,000, 21x98-ft., brick store building at 237 N. Tryon St.

N. C., Greensboro—W. F. Ross, Benbow Arcade; J. W. Money, College Park Drive, and B. B. Tatum, Cannon Court, purchased property Elm and Sycamore Sts., contemplates erecting arcade building.

N. C., Greensboro—United Cigars Corp. purchased property at Elm and Sycamore Sts.; will either raze present building and erect modern structure or make extensive alterations.

Okla., Enid—W. E. Worden, 724 W. Elm St., clearing site at 223 W. Main St., planning business building.

Tenn., Chattanooga—James Kalanzis, 1709 Duncan Ave., erect \$10,000, 1-story, brick, 6-store buildings, Rossville Blvd. between 49th and 50th Sts.

Tenn., Knoxville—T. J. Poe erect \$10,000 brick store, filling station and apartment house, Fifth Ave. and Central St.

Tenn., Knoxville—John Schoad erect \$44,000, brick store, cor. 22nd St. and Cumberland Ave.

Tenn., Rossville—Rossville Realty Co. demolishing fronts of buildings between state line and Dadds Ave., to permit street widening; will rebuild, install new fronts and modernize interiors.

Tex., Fort Worth—A. J. Zihlman, 1000 Montgomery St., erect \$30,000, 1-story, brick and steel store building at 3600 W. Seventh St.

Tex., Houston—Edward Larendon, Larendon Bldg., has plans in progress by Joseph Finger, Keystone Bldg., for \$50,000 2-story, brick and cast stone commercial building, Prairie and Caroline Sts.

Tex., San Antonio—H. J. Shearer, 303 Mary Louise Drive, selected Adams & Adams, Builders Exchange Bldg., prepare plans for brick and reinforced concrete community center, Cincinnati Ave. at Woodlawn Lake.

Tex., San Antonio—A. G. Walker, San Juan, calls for bids at once, by invitation, for 1-story, 152x80 ft., probably hollow tile and concrete, 15-store building, W. Houston between Cameron and Laredo Sts.; Will N. Noonan Co., Archts., Builders Exchange Bldg.

Theaters

Tex., Dallas—Oak Cliff Theater, Mrs. E. H. Server, Pres., has plans by W. H. Reeves, 3310 Commerce St., for \$15,000, 90x50 ft. theater building.

Warehouses

Ala., Birmingham—Hill Grocery Co., 230 S. 16th St., erect \$10,250 warehouse, Third Ave. South.

N. C., Wilmington—Tidewater Power Co., F. A. Mathews, Executive Vice-Pres., call for bids at once on \$40,000 warehouse at Ninth and Orange Sts.

Okla., Tulsa—Gens Cash Store Co. has preliminary plans in progress for 3-story and basement, 70x140-ft., brick, stone and concrete warehouse; Cross & Duggan, Archts., 114½ W. Second St.

Tex., Austin—J. O. Buas & Sons, 304 W. Fifth St., soon call for bids on 1-story and basement, reinforced concrete, brick and wood warehouse on W. Forsyth St.; built-up roof; W. E. Ketchum, Archt., Pope Bldg.

Tex., Houston—Rex Frazier and associates planning to erect warehouse beside Main St. Viaduct.

BUILDING CONTRACTS AWARDED

Association and Fraternal

Va., Blacksburg—Roanoke Webster Brick Co., Boxley Bldg., has brick contract for \$25,000 temple for Hunter's Lodge of Masons; millwork, Exchange Lumber Co., Walnut Ave. and 3rd St., both Roanoke, Va.; stone, Biddle Concrete Co., Peak & B. & O. R. R., Clarksburg, W. Va.; heating and plumbing, E. L. Hawkins, Blacksburg; roofing not let; remainder of work by Wesley W. Gray, Contr. 9-22

Bank and Office

Ark., North Little Rock, Little Rock—Arkmo Lumber Co., W. C. Chamberland, Mgr., Rector Bldg., erect brick veneer office building, W. Broadway and Fourth St.; 1 story, 50x47 ft., oak floors, tile roof; H. Ray Burks, Archt., Home Ins. Bldg.; owner builds.

Okla., Chickasha—Southwestern Light and Power Co. erect \$53,000 office building after plans by E. H. Eads; brick, stone and rein. concrete, 2 stories, 50x150 ft.; Cowan Bros., Contr.

Okla., Oklahoma City—Carey, Lombard, Young & Co., 19 West 16th St., have lumber contract for \$775,000 Commerce-Exchange Bldg. for Builders Exchange Building Co., J. B. Landers, Oklahoma Club Bldg., Sec. Mgr.; painting and decorating, C. G. Hill Co., 303 N. Broadway; hardware, W. J. Petree Hardware Co., 221 W. Main St.; future sub-contracts to be let to members of Exchange; structure 10 stories, 75x140 ft.; Hawk & Parr, Archts., Cotton Exchange Bldg.; Reinhardt & Donovan Co., Contr., Trades Nat. Bank Bldg.

Tex., Houston—Houston Structural Steel Co., 3910 Washington St., has steel fabrication and erection contract for \$750,000 Houston National Bank building; Hedrick & Gottlieb, Archts., Second Natl. Bank Bldg.; Don Hall Construction Co., Contr., Cotton Exchange Bldg. 9-8

Tex., San Benito—H. J. Hinkley erecting 3-story building, to be occupied by branch of San Antonio Builders Exchange; concrete brick and stucco, 150 ft., flatiron shape, cost \$100,000; Birger A. Elwing, Archt., Harlingen; R. E. Ewing, Contr.

Tex., Spearman—First National Bank, C. A. Gibner, Cashier, erect \$11,000 bank building, Main and Davis Sts.; 25x50 ft.; new fixtures; Hill & Karr, Contr.

Va., Hopewell—Jas. O. Hedlin let contract for \$80,000 bank and office building to W. W. Thompson Engineering Co., 857 W. 46th St., Norfolk; stores and banking quarters on first floor; fireproof, 3 stories, 60x130 ft., concrete and mastic floors, concrete foundation, concrete and built-up roof; Osbert L. Edwards, Archt., 211-13 Elder Bldg. 8-18

Churches

Ala., Anniston—Church of Christ let contract for \$26,000 Gothic type building to Harry Dempsey; brick, auditorium and basement, 44x70 ft., 12 classrooms, concrete and pine floors, composition roof; furnishings, equipment, etc., \$2,000; G. T. Reid, Archt., Merchants Bank Bldg., Jackson, Miss. 9-29

Ark., Fayetteville—Gospel Tabernacle, care Rev. Bert W. Bruffet, let contract to E. J. Hall for \$10,000 tabernacle; fireproof, 1-story, 60x100 ft. 7-21

Ark., Little Rock—First Church of Nazarene, Rev. M. Edw. Borders, Pastor, erect \$60,000 building after plans by Thos. M. Perkins, Jones St.; brick veneer, 2 stories and basement, 75x115 ft., composition shingle roof, pine floors, concrete basement. 4-7

Mo., North Kansas City, Kansas City—Christian Church, Walter Toohey, Chmn., Bldg. Comm., started work on \$25,000 building, Seventh St. and Kenwood Ave.; brick, 40x90 ft.; Clifton B. Sloan, 820 Baltimore Ave., Archt.; Wm. T. Miller Construction Co., Contr.

Mo., St. Louis—Mt. Olive Baptist Church, erect \$35,000 building, 17th and Washington Sts.; 1 story and basement, 50x110 ft.; J. R. Steel, Archt., 4596 Garfield St.; Lawton Construction Co., Contr., 8910 Bristol St., Overland, St. Louis.

N. C., Concord—Elizabeth Temple, Route No. 2, started work by day labor on \$20,000 church to replace damaged structure; brick and steel, 1 story and basement, 65x150 ft., composition roof; furnishings, equipment, etc., \$5000; Southern Engineering Co., Engr., Charlotte. See Want Section—Building Material and Equipment.

Okla., Seminole—First Methodist Church, Rev. B. L. Williams, Pastor, let contract to Wright Construction Co., Miami, Okla., for \$45,000 building; brick, stone and concrete, 2 stories; Wm. C. Mendor, Archt., Dan Waggoner Bldg., Fort Worth.

Okla., Talequah—Baptist Church completed excavation for concrete foundation of cobbles-stone building; 57x88 ft. seat about 750, Sunday school about 500. Address The Pastor.

S. C., Anderson—St. John's Methodist Church let contract at \$23,063 to Townsend Lumber Co. for remodeling and erecting addition to Sunday school; 3 stories.

Tenn., Maryville—M. P. Moller, Inc., Hagerstown, Md., has contract to install pipe organ, First M. E. Church.

City and County

Ark., Magnolia—City let contract for \$25,000 city hall to J. M. O'Neil, Hope; stone trim, brick and frame, 3 stories, 40x70 ft., tin roof; Witt, Seibert & Halsey, Archts., 811 Texarkana Natl. Bank Bldg., Texarkana. 9-29

Fla., Bradenton—City, R. K. Van Camp, Commr., let contract at \$10,339 to J. A. Smith, Hanover Hills, for jail; jail work, Fries & Son Steel Construction & Engineering Co., Inc., Covington, Ky.; 40x74 ft., brick, concrete floors and foundation, built-up roof, 1 story; E. W. Darling, Jr., Archt. 9-22

Fla., Fort Lauderdale—City, B. J. Horne, Mgr., let contract at \$57,804 to John Olssen for municipal casino, Ocean Blvd. and Sunset Ave.; Francis L. Abreu, Archt., 204 Bryan Court. 9-22

Fla., St. Petersburg—City, Ernest Kitchen, Director of Public Works, started work on \$10,000 addition to city hall; tile and stucco, steel trusses, 30x80 ft., concrete floors, Spanish tile roof; plans by Dept. of Public Works; Emil A. Nordstrom, Struct. Engr., City Hall; Eric Clauson, Contr., 501 Summer St.; electrical work, Southern Electric Co.; plastering, Andy Kilgore, 244 Oakdale St.; steel, Pinellas Machine Co., 838 Third St., South.

Mo., St. Louis—Western Granite Co. has contract for Missouri red granite for \$4,000, 000 Civil Courts building; struct. concrete, A. D. Gates Construction Co., Chemical Bldg.; marble work, Union Marble & Tile Co., 1115 S. Seventh St.; orna. iron and bronze, Lasar Manufacturing Co., 1313 N. 16th St.; plastering, John W. Rowan Plaster Co., 411 N. Seventh St.; glass and glazing, Pittsburgh Plate Glass Co., all St. Louis; Bedford stone, Indiana Limestone Co., Bedford, Ind.; setting stone and granite, Stevens & Sons Co., 431 Dearborn St., Chicago, Ill.; mail chute, Cutler Mail Chute Co., Rochester, N. Y.; metal windows, Voigtman Metal Window Corp., Kalamazoo, Mich.; plumbing, C. O. Smith Plumbing Co., 4025 Forest Park Bldg.; wiring, E. A. Koeneman Electric Co., 1420 Pine St.; heating and ventilating, Peters-Eichler Heating Co.; plans by Plaza Commission, Inc.; Selden-Breck Construction Co., Contr., Fullerton Bldg. 8-18

Okla., Purcell—Standard Brick Co. and United Clay Products Co., 304 N. Nogales St., Tulsa, have brick contract for \$100,000 McClain County courthouse; steel, J. B. Klein Iron & Foundry Co., 1006 W. Second St., Oklahoma City; Hawk & Parr, Archts., Cotton Exchange Bldg., Oklahoma City; Cowan Bros., Contrs., Shawnee.

Dwellings

Ala., Birmingham—Estes Real Estate and Insurance Co., Woodward Bldg., erect 3 brick veneer and shingle siding dwellings, Redmont Park; 2 stories and basement, slate roof, wood floors, steam heat, steel sash, tile baths, steam heat; Warren, Knight & Davis, Archts., 1603 Empire Bldg.; day labor.

Ala., Birmingham—Leo K. Steiner, Steiner Bank Bldg., let contract to N. B. Levinge, 1525 S. Tenth St., for residence and garage, Argyle Rd.; Indiana limestone and tile, 2 stories and basement, 48x54 ft. and 22x31 ft., hardwood and tile floors, tile roof, steam heat; Harry B. Wheelock, Archt., Steiner Bank Bldg. 9-29

Ala., Gadsden—Sam Rosenbaum erect \$10,000 residence, Turrentine Ave.; brick veneer and stucco, 1 story, 50x50 ft., hardwood floors, composition roof, hot air heat; W. H. Mayben & Son, Contrs.; plumbing, American Plumbing and Heating Co.; brick work, June Christopher, Attalla; structural steel, Ingalls Iron Works, 720 Avenue D, Birmingham.

Ark., Arkadelphia—Methodist Episcopal

Church, South, erect district parsonage; 8 rooms; Jesse Rogers, Contr.

Ark., Little Rock—F. W. Duttlinger, Sherwood Rd., let contract for \$10,000 brick veneer residence to M. O. Gardner; 2 stories, 38x40 ft., hardwood floors, concrete foundation, tile roof; Clyde Ferrel, Archt., 307 1/2 W. Second St. 9-15

Ark., Little Rock—V. C. Gordy, 222 Rosetta St., erect brick veneer residence, 201 Crystal St.; C. H. Reid, Contr.

Fla., Miami Beach—J. L. Sibley erect \$15,000 residence, 2988 Alton Rd.; 2 baths, 2-car garage; R. DeC. Weakley, Collidge Bldg., Archt.; owner builds.

Fla., Miami Beach—Tropical Homes, Inc., 560 West Ave., erect \$15,000 dwelling, 5810 Alton Rd.; frame and stucco, piling foundation; C. R. Clark, Archt.; owner builds.

Fla., Miami Beach—Geo. D. Morgan, Rochester, N. Y., started work on \$100,000 residence; reinforced concrete, 2 stories, 57x119 ft., Raymond concrete pile foundation, Cuban tile roof; Walter C. DeGarmo, Archt., 39 S. E. Sixth St.; E. A. Stuhman, Engr., Seybold Arcade; Chas. F. McKenzie Co., Contr., 144 N. E. Sixth; plumbing, Miami Plumbing Co., 1140 N. E. First Ave.; all Miami; electrical work, J. F. Ambrose Co., 1115 Fifth St., Miami Beach; sub-contracts not let. See Want Section—Building Material and Equipment. 9-22

Fla., Tampa—Robert Mugge Co., Bay View Hotel, completed framework of 5 duplexes, Fourth Ave. and 19th St.; frame, 1 story, 27x55 ft., composition shingle roofs; total cost \$15,000; R. B. Gambler, Archt., care Bldrs. Exchange; L. W. Tucker, Contr., Campbellello Ave. 9-29

La., New Orleans—Union Homestead Assn. erect \$18,000 building, Carondelet and Jackson Sts.; 2 stories; H. P. Lucy, 3231 State St., Contr.

Md., Baltimore—Herman Home Building, Inc., erect 9 brick dwellings, E. side Culver St. S. of St. Joseph St.; 2 stories, 14x39 ft., slag roofs, steam heat; total cost \$22,500; owner builds.

Md., Baltimore—W. McHenry Keyser, Keyser dwelling, Tilbury Way, and 2 on Taplow Rd.; total cost \$35,000; J. W. Wolcott, 18 E. Lexington St., Archt.; Henry T. Sorrell & Sons, Contrs., 4112 Kathland Ave.

Md., Baltimore—Albert D. Alben, Holder Ave., erect 4 frame dwellings, N. W. side Sefton Ave. S. E. of Altoona Ave.; 1 1/2 stories, 25x34 ft., steam heat; total cost \$12,000; J. P. Dugan, Archt.; owner builds.

Mo., Kirkwood, St. Louis—R. V. Nicholas, 417 N. Clay Ave., erect \$10,000 frame residence, Monroe St. and Clarke Ave.; 2 stories and basement, 25x36 ft., oak floors, tile bath, composition roof, hot air heat; Fred C. Howell, Contr., 117 N. Kirkwood Rd.

Mo., St. Louis—Geo. C. Smith, 1620 Quando Ave., has contract for \$17,000 dwelling, Hawthorne St., near Compton St.; brick, 2 stories and basement, 31x37 ft.; Wm. P. McMahon, Archt., 718 Buder Bldg.

Mo., St. Louis—Russell M. White, 7431 Somerset Drive, erect \$10,000 residence, Moorlands; 1 1/2 stories and basement, 34x37 ft., concrete foundation, oak floors, slate or tile roof, tile bath, hot water heat; day labor.

Mo., St. Louis—J. H. Williamson, 7039 Waterman St., erect \$12,000 residence, 7206 Maryland Ave.; 2 stories and basement, 37x32 ft., oak floors, concrete foundation, tile roof and bath, hot water heat; day labor.

Mo., St. Louis—L. D. Doerflinger, 2631 S. Jefferson St., erect 4 brick dwellings, 4011-15-17-21 McDonald St.; 1 story, 21x42 ft., paper shingle roofs, hot air heat; total cost \$12,000; Doerflinger Realty Co., Archt.-Contr., 2531 S. Jefferson St.

Mo., St. Louis—W. M. Sinig, 5238 Eichelberger St., erect 4 frame dwellings, 5230-34-38-40 Dewey St.; 1 story, 24x40 ft., asphalt shingle roofs; total cost \$12,000; plans and construction by owner.

Mo., University City, St. Louis—Jas. A. Weaver, 5843 Cates Ave., erect \$12,000 brick residence, 7453 Kingsbury Blvd.; 2 stories and basement, 41x28 ft., oak floors, tile bath, slate roof, hot water heat; Parnell Quick, Contr., 240 W. Big Bend Rd., Webster Groves, St. Louis.

N. C., Belmont—W. T. Hall erect 8-room brick residence, Central Ave.; work started.

N. C., Blowing Rock—Joe Cannon, Concord, erecting \$65,000 residence; walls under way.

Okla., Shawnee—L. A. Brown erect \$20,000 residence; brick veneer, 2 stories and basement; E. J. Peters, Archt., Shawnee; Walker & Campbell, Contrs., Oklahoma City; plumbing, Reid Bros. Plumbing Co.; wiring, Okla-

homa Electric Supply Co., 209 W. First St., Oklahoma City.

Tenn., Knoxville—Frank Kerr erect \$10,000 residence, Cherokee Blvd.; 2 stories, 8 rooms; Worsham Bros., Contrs., Tenn. Terrace Hotel.

Tenn., Memphis—Dr. J. A. Chrisler, 1291 Union Ave., erect brick, stone and stucco residence, Chickasaw Gardens; 2 stories and basement; 83x66 ft., oak floors, tile roof and bath, garage and servants' quarters; J. Frazer Smith and H. M. Burnham, Archts., Goodwyn Inst. Bldg.; McDonnell Construction Co., Contr., 1065 Lamar Ave.

Tenn., Memphis—Ben Goodman, 82 Madison St., let contract, including electrical work, to H. C. King, Builders Exchange, for \$32,000 brick and stone residence, 2283 Poplar St.; 2 stories, 50x75 ft., hardwood floors, tile roof; heating, H. C. Clifton Co., Lee Bldg.; plumbing, J. H. Tutt Plumbing Co., 963 Lane Ave.; Sieg & McDaniel, Archts., First Natl. Bank Bldg.; foundation in. See Want Section—Building Material and Equipment. 9-29

Tenn., Memphis—W. W. White, 514 Fidelity Bank Bldg., erect \$10,000 duplex and garage, 1527 N. Parkway; 2 stories and basement, oak floors, composition roof, tile baths, hot water heat; owner builds.

Tenn., Nashville—Mrs. C. E. Whitehurst erect brick veneer residence, 2219 Fifteenth Ave.; 1½ stories, composition roof, warm air heat; day labor.

Tex., Harlingen—C. C. Bledsoe erect Dun-tile and stucco residence; 2 stories, cost about \$9,000; Price Construction Co., Contr.

Tex., Houston—Sol E. Gordon, 3015 Houston Ave., erect \$13,000 duplex, 1715 W. Main St.; 2 stories, brick veneer; A. E. Olson & Bros., Contrs., 1519 Main St.

Tex., Houston—A. S. Vandervoort, Jr., 1409 Westworth St., erect \$12,800 residence, 3017 Wheeler St.; brick veneer, 2 stories, 6 rooms, 3 baths, frame garage; Thos. M. Murray, Contr., Second Natl. Bank Bldg.

Tex., Houston—Claxton Parks let contract for French type residence, River Oaks, to Benson-Hall Co.; 2 stories, brick veneer; H. A. Salisbury, Archt., Post Dispatch Bldg.

Tex., Houston—W. D. Royston, Natl. Bank Bldg., started work on residence, Loosan Lane; J. A. Roberts, 603 Highland, Contr.

Tex., Houston—W. R. Shriner, 2905 Beauchamp, erect \$16,000 residence, Oakdale St., Riverside; A. E. Olson & Bros., Contrs., 1519 Main St.

Tex., Houston—Capt. Joe Welkerth, 308 Hagerman St., let contract for \$16,000 residence, Prospect and Live Oak Sts.; brick veneer, 11 rooms, 2 stories; H. C. Vogt, Contr., 812 Hawthorne Ave.

Tex., Houston—R. W. Wier, care Wier Lumber Co., First Natl. Bank Bldg., let contract to Thos. M. Murray for brick veneer residence, Broadacres; 2 stories; B. P. Briscoe, Archt., both Second Natl. Bank Building. 9-29

Tex., San Antonio—A. B. Walton, Bldr., plans number dwellings; 1 under constr. at 2042 W. Grammercy Place.

Tex., San Antonio—F. L. Hinkly let contract for \$10,000 to \$12,000 Aztec pueblo type residence to A. J. Baker; brick and stucco, 44x56 ft.; Birger A. Elwing, Archt., Harlingen.

Tex., San Antonio—Jack R. Locke, Travis Bldg., let contract for \$25,000 residence, Grammercy St., near McCollough Ave., to G. W. Mitchell, Builders Exchange Bldg.; plumbing and heating, Seidel Plumbing Co.; wiring, Martin Wright, 104 Ellsmere St.; hollow tile and stucco, 2 stories, tile roof; Richard Vander Straten, Archt., Travis Bldg. 8-15

Tex., San Benito—H. C. Lawton erect \$10,000 residence, S. Sam Houston Blvd.; frame, 2 stories, 8 rooms; plans and construction by owner.

Government and State

Fla., Gainesville—Florida Farm Colony for Epileptic and Feeble-Minded let contract to Maddox Foundry & Machine Co., Archer, Fla., for power house and laundry; cost about \$10,000; Rudolph Weaver, Archt., Univ. of Florida.

Md., Jessups—State Board of Welfare, Robt. B. Case, Sec., Union Trust Bldg., Baltimore, let contract at \$229,750 to Davis Construction Co., 9 W. Chase St., Baltimore, for administration and cell building; 392 cells in 4 tiers to Van Dorn Iron Works, 2685 E. 79th St., Cleveland, O., at \$209,655; plumbing, Harry L. Black & Son, 25 Clay St., Baltimore, \$43,274; heating and lighting reserved; brick and steel, granite trim, slate

roof, cement, marbleoid and terrazzo floors, 270x55 ft., 55 ft. high to cornice, 8-6 ft. between cell tiers; Theo. Wells Pietsch, Archt., American Bldg.; Geo. E. Painter, Mech. Engr., 9 E. Pleasant St., both Baltimore. 9-15

Hospitals, Sanitariums, Etc.

La., Shreveport—Rex Electric Co., 1409 Fairfield Ave., has electrical work contract in connection with \$80,000 remodeling of Charity Hospital; plumbing, Fitzgerald Plumbing & Heating Co., 941 Louisiana Ave.; roofing, Houseman Roof & Sheet Metal Co., 1549 Jordan St.; painting and decorating, F. B. Hodgins, 1114 Sprague St.; Seymour Van Os, Archt., City Bank Bldg.; Werner Co., Inc., Contr., 204-5 Comm. Bank Bldg. 9-29

Md., Baltimore—Johns Hopkins Hospital let contract to Willard E. Harn Co., Inc., 2314 Oak St., to alter and remodel basement of old nurses' home, Jefferson St., for cafeteria; cost \$14,000; terrazzo floors; remove walls, install cupboards, doors, etc., steel door frames, plumbing, plastering; painting reserved; Jos. Evans Sperry, Archt., Calvert Bldg.

Miss., Gulfport—Powers Construction Co., Box 314, has contract for roads and walks, U. S. Veterans' Hospital. 2-17

Mo., Columbia—Robnett & Price let contract to J. W. Hobbs Realty Co., 118 High St., Jefferson City, for 2-story, 75x75 ft., brick and stone, 23-apartment house, 600 Capitol Ave.

Mo., St. Louis—St. Vincent's Sanitarium, Sister Gertrude, Mother Superior, let contract to Cornet-Casey Co., Chemical Bldg., for \$100,000 kitchen and service addition and alterations to hospital; brick and rein. concrete, 1 story and basement, 55x52 ft., hollow tile, metal lath; O'Meara & Hills, Archts., 1705 Arcade Bldg.; G. C. Quick, Engr., 5354 Minerva St. 9-1

Okla., Muskogee—City, W. H. Cavanaugh, City Clk., let contract to Kelly & Phillips to remodel Spaulding College for city hospital; cost about \$100,000; Dawson & Griffith, Archts., Dallas Apts. 7-21

Okla., Vinita—American Sash & Door Co., 16th and Bellefontaine Sts., has millwork and glass contract for \$150,000 ward building, Eastern Oklahoma Hospital for Insane; heating, plumbing and ventilation, Grinnell Heating Co., Pioneer Trust Co. Bldg.; cement, Ash Grove Lime & Portland Cement Co., Grand Ave. Temple; steel, E. C. Marqua Co., Finance Bldg., all Kansas City, Mo.; struct. steel, Muskogee Iron Works, Frankfort and Spaulding St.; roofing and sheet metal, Star Tin & Heating Co., 218 Broadway, both Muskogee, Okla.; hauling, E. Elliott; lumber, Wilson Lumber Co., both Vinita; sand, W. M. McMichael, Atlas Life Bldg., Tulsa, Okla.; structure 121x186.4 ft.; Layton, Hicks & Forsyth, Archts., Braniff Bldg., Oklahoma City; Manhattan Construction Co., Contr., Manhattan Bldg., Muskogee. 9-29

Tenn., Johnson City—Dr. W. C. Goss excavating for \$40,000 hospital, bet. E. Main and Jobe Sts.; 3 one-story units connected by passageway, about 40 beds.

Tenn., Memphis—United States Veterans' Bureau, Frank T. Hines, Director, Arlington Bldg., Washington, D. C., let contract for addition to main building and shops building, etc., U. S. Veterans' Hospital No. 88, to Batson-Cook Co., West Point, Ga.; cost about \$80,000, concrete foundations, rein. concrete floor construction, hollow tile partitions, slate and built-up roof.

Tex., Beaumont—Dr. A. D. Mann, 601 Perlstein Bldg., Drs. Alexander and Gardner let contract for \$84,000 fireproof hospital, Broadway and Forrest St., to Herman Weber, 311 Perlstein Bldg.; 2 stories and basement with foundation for 2 additional stories; Phelps & Dewees, Archts., Gunter Bldg., San Antonio. 8-15

Tex., San Antonio—State Board of Control, Dr. H. H. Harrington, Chmn., Austin, let contract for \$100,000 women's dormitory, San Antonio State Hospital, to F. H. Wagner, Hicks Bldg.; fireproof, brick, cast stone and rein. concrete, 2 stories, face and common brick, rein. concrete frame and floor slabs, concrete floors; Phelps & Dewees, Archts., 718 Gunter Bldg.; plumbing, Seidel Plumbing Co.; electrical work, A. H. Shafer, all San Antonio; elevators, American Elevator Co., 115 Cedar St., New York. 9-15

Hotels and Apartments

Fla., Jacksonville—E. W. Bostick, 4616 Polaris St., erect \$12,000, 2-story, brick veneer flats, Myra between King and West Sts.; owner builds.

Fla., Venice—Venice Investment Co., H. M. Hane, Sec., broke ground for \$78,000 co-oper-

ative apartment building in Palmetto Court; equipment and furnishings cost additional \$25,000; Granada style of Spanish architecture; A. W. Longbottom, Contr., is Pres. of Co.; Harrison Gill, Archt., New York and Venice.

La., New Orleans—R. A. Monaghan, 6331 Patton St., completed foundation for \$20,500, 2-story, storm sheathed, stucco, 60x40 ft., 8-apartment house, Exposition Blvd. and Patton St.; concrete and brick foundation, pine floors; Clow gas steam heating; Crane water heaters; Hohler bath fixtures, Murphy beds; built-in ironing boards; kitchenette assemblage made by Wasmuth Endicott Co., Andrews, Ind.; red asbestos shingle roofing by Keady Mattison Co.; A. L. Siren, Archt., 421 S. Pierce St.; A. G. Dardin, Contr., 3108 S. Carrollton St. 9-22

La., New Orleans—Mrs. Fred Anderson let contract to New Orleans Construction Co. for \$54,000, 2-story and basement, 50x90 ft. apartment house, Canal between Gayoso and Salcedo Sts.; Jones, Roessle & Olschner, Archts., both Maison Blanche Bldg. 8-25

Mo., St. Louis—M. Obermeyer, 4609 Carrie St., let contract to A. Winkel & Son, 1810 Leffingwell St., for \$11,000, 2-story, 35x50 ft. tenement, 5066-S W. Florissant St.; composition roof; A. Meyer, Archt., Central Natl. Bank Bldg.

Mo., St. Louis—Heston Investment Co., 6819 Raymond St., erect two 2-story, brick, 37x44 ft. tenements, 5044 and 5204 Oleatha St.; ruberoid roofing, hot air heat; J. D. Hessee & Son, Archt.-Builder, 6819 Raymond St.

Mo., St. Louis—F. W. Mieger, 2859 Utah St., let contract to L. C. Hosack, 3307 Woodson St., for \$20,000, 2-story, brick, 92x28 ft. tenement, 2604-S Clara St.; composition roof, warm air heat.

Mo., St. Louis—West End Realty & Construction Co., 3416 Union St., erect two \$20,000, 2-story, brick tenements, 3914-22 Hereford St.; tar and gravel roofs, steam heat; C. L. Thurston, Archt., Webster Groves, Mo.; owner builds.

Mo., University City, St. Louis—Elmer E. Guess, 5667 Southwest, erect \$10,000, 2-story, brick, 4-family tenement, 6748 Crest St.; composition roof, hot air heat; W. C. Carl, Archt.-Contr., 3016 N. Park Drive.

Okla., Tulsa—Mincks Hotel Co., I. S. Mincks, Pres., 1156 N. Denver St., let contract to Van Horn Construction Co., 526 S. Kenosha St., for 13-story, brick, stone and reinforced concrete hotel building, Fourth St. and Cheyenne Ave.; F. D. Redlick, Architect. 8-11

Tenn., Etowah—Ellis & Kirby, Knoxville, have contract for 38x75 ft., brick, 3-story, 35-bedroom hotel on site of Stafford Hotel.

Tenn., Manchester—Manchester Hotel making extensive repairs and improvements; address the Propr.

Tex., Fort Worth—R. G. Booth, 924 S. Henderson St., erecting \$10,000, 2-story, 30x48-ft., 2-apartment building, 1025 S. Adam St.; brick veneer, concrete foundation, oak floors, red tile roof; 5 rooms, hall, breakfast room and bath each; R. K. Meggs, Contr., 3127 View St. 9-29

Tex., Houston—R. E. McMahon, 1103 Bomar St., let contract to E. J. Burke Co., First Natl. Bank Bldg., for \$12,000, 2-story, brick veneer apartment building at 4815 Chenevert St.

Tex., Houston—T. W. Emenheiser, 1523 Blodgett St., erect \$11,000, 2-story, brick veneer apartment house at 4828 Chenevert St.; owner builds.

Tex., Menard—Mr. and Mrs. Harden Green let contract to Balfanz Construction Co., Abilene, for \$125,000, 4-story, fireproof hotel building; Barrett tar and gravel roof, cement, tile and terrazzo floors, concrete foundation, passenger elevator; Hill Bros., Waco, heating and plumbing; wiring to A. Martin Wright Electric Co., 308 E. Houston St., San Antonio; A. B. Withers Co., Archt., 104½ S. Oak St., Mineral Wells. 8-4

Tex., San Antonio—Alamo Development Co., Travis Bldg., erecting \$75,000, 2-story, brick veneer, 8-suite apartment building, 1400 block W. Woodlawn Ave., for John M. Harris, 213 E. Ashby St.; 5 rooms each, garages in basement, 2 incinerators, Frigidaires, electric dishwashers.

Tex., San Antonio—Miss Agnes Forrin, 2402 Broadway, completed foundation for \$41,000, 2-story, cement and Nelstone, 31.6x105 ft. apartment house in 100 block Braham Blvd.; tile, tar and gravel roof; equipment and furnishings cost \$8000; plans by Steves Lumber Co., 704 E. Commerce St.; A. Schwartz, Contr., 129 Barilla Place. See Want

Section—Building Materials and Equipment.

9-39

Tex., San Antonio—Ellis Albaugh, 758 E. Woodlawn Ave., completed foundation for \$40,000, 2-story, frame, stucco, 28x96 ft. apartment building, 403-7 Fulton Ave.; reinforced concrete foundation, furnishings and equipment cost \$10,000; individual gas stove heating; electric work to Thomson Electric Co., 1615 Broadway; plumbing, Logan & Co.; H. H. Clark, Contr., 132 Rigsby St.; Albaugh & Steinbomer, Archts., 941 Austin St. 9-29

Tex., Wharton—H. H. Minze let contract to H. B. Allen, at \$52,072, for 3-story and basement, 75x100 ft., 40-room, reinforced concrete, hollow tile, cast stone trim hotel; plumbing and heating to West & Gutzelt, \$11,900; electrical work, A. H. Schaeffer; Morris & Noonan, Archts., Builders Exchange Bldg., San Antonio. 9-22

Va., Clifton Forge—Davis Brothers, Inc., 1716 Summit Ave., Richmond, received contract for \$300,000 hotel, on present site of Hotel Jefferson and vacant lot adjoining; part of present hotel will be used, entire front to be remodeled; lobby and dining room on street level and underneath hotel will be 2 store rooms fronting Main St.; 100x140 ft., 110 rooms, 75 with baths, fireproof, elevators; E. A. Snead, Pres. and Eugene Mathews, Vice-Pres. of organization. 5-5

Miscellaneous

Miss., Hickory Flat—Hickory Flat Athletic Assn. let contract to Houston Powell for erection of inner court building.

Mo., Kansas City—Thomas O. Bright, 3700 Madison St., has plans by Clarence E. Shepard, 5940 Oak St., and Harry L. Wagner, 355 N. Lawn St., Asso. Archts., for 2-story dance hall, 31st St. and Robert Gillham Road; John H. Thompson Construction Co., Contrs.

N. C., Charlotte—Junior League let contract to V. J. Guthery & Sons, Inc., 4 Queens Road, M. P., for \$14,000, 2-story, brick veneer, 10-room Baby Home at 1 Bay St.

Schools

D. C., Washington—District Commissioners, Room 509, District Bldg., let contract to Charles H. Tompkins Co., 1612 Park Road, N. W., at \$372,240, (omitting gymnasium and razing of part of old structure) for Garnett-Thompson Junior High School at Vermont Ave. Tenth, U and V Street, N. W.; A. L. Harris, Municipal Archt., District Bldg. 9-8

Fla., Lee—Madison County Board of Public Instruction, Madison, let contract to C. B. Stubbs, Palmetto, at \$21,112, for extensive additions to school building.

Fla., Mango—Hillsborough County Board of Public Instruction let contract to A. J. Honeycutt, Peninsular Telephone Bldg., both Tampa, at \$16,591, for school building; Carl R. Couch, Archt., 713½ Franklin St., Tampa. 9-22

Ga., Avera—Jefferson County Board of Education, M. R. Little, Supt., Louisville, erecting school building.

Ga., Macon—T. C. Burke, Inc., 358 Third St., received contract at about \$10,000 for Corbin hardware, for library, 3 dormitories and dining hall at Greater Wesleyan College, Southern Ferro-Concrete Co., Gen. Contr., 70 Ellis St., N. E., Atlanta. 9-22

Ga., Rabun Gap—Rabun Gap-Nacoochee Institute, J. R. Campbell, 1314 Lucille Ave., S. W., Atlanta, head of building comm. let contract to H. J. Carr & Co., Candler Bldg., Atlanta, for central building and 2 dormitories, cost \$250,000; Wm. J. J. Chase, Archt., 140 Peachtree St., Atlanta.

Ga., Rome—Thompson-Starrett Co., Contrs., 101 Marietta St., Atlanta, Ga., received contract for Berry School unit, reported to cost \$750,000, wires: "Two buildings, one consisting auditorium, classrooms and laboratories, other recreation and heating plant; 1 to 5 stories, rubble stone walls, limestone trim, slate roofs; mechanical equipment included in general contract; Coolidge & Carlson, Archts., 89 State St., Boston, Mass.; sub-contracts not yet let." 9-29

Ga., Valdosta—Emory University, J. Robert Dasher, Chmn. Building Committee, let contract to Batson-Cook Co., West Point, for concrete and steel administration building, first unit of Junior College plant; face brick, marble trim, Colonial design; heating and plumbing to Roscoe Rouse; Ivey & Crook, Archts., Candler Bldg., Atlanta; Biggers & Greer, Asso. Archts. 9-1

Ky., Earlington—Hopkins County Board of Education, Madisonville, let contract to P. B. McChesney, Bowling Green, at \$44,944, for High School building; Wahnsieder Co., Evansville, Ind., heating and plumbing.

Miss., Moorhead—Mississippi School Supply Co., 120 S. Gallatin St., Jackson, received contract for classroom furniture, office furniture and library tables and chairs, for Board of Trustees of Sunflower Agricultural High School and Junior College.

N. C., Greenville—Board of Trustees East Carolina Teachers' College, E. G. Flanagan, Chmn., let contract to John W. Hudson, Tarboro, for training school, power house and laundry, dining hall and kitchen, renovation of 2 dormitories; power plant and heating let to Poe Piping Co., Greenville, S. C.; plumbing to J. L. Powers, Bennettsville, S. C.; electrical work, Wood Whitley, Wilson; George R. Berryman, Archt., Odd Fellows Hall, Raleigh. 9-8

Okl., Orlando—Board of Education let contract to Clarence Sikes, Chickasha, for \$25,000, 1 story and basement, brick and stone school building; Butler Co., Archts., Hershkovitz Bldg., Oklahoma City.

S. C., Rock Hill—Board of Trustees Rock Hill School District, J. E. Gettys, Chmn., let contract to J. E. Healan, at \$14,740, for additional building at Northside School; E. D. Bowers received contract at \$6867 for industrial building at Emmett Scott colored school; heating to Waldrop Heating & Plumbing Co., \$4887.

Tex., Clinton—Clinton Common School District No. 16, C. W. Burdeaux, Pres. School Board, let contract to P. Wicklund, for 2-classroom, tile and stucco school building at Fidelity; John McLeiland, Archt., 605 West Bldg., Houston. 9-1

Tex., Kress—Board of Trustees Houston District No. 20, Swisher County, let contract to Harrison & Smyth, Plainview, for 28x60 ft. brick school building.

Tex., Thorndale—G. W. Gunn, Contr., started work on 24x60-ft. Detmold school.

Tex., Truscott—Board of Education recently let contract for High School building; 8 classrooms, offices, library, gymnasium and basement.

Va., Richmond—Medical College of Virginia, Dr. W. T. Sanger, Pres., let contract to James Fox & Sons, 2501 E. Franklin St., at \$185,000, for women's dormitory; Baskerville & Lambert, Archts., Travelers Bldg. 7-21

Stores

Ala., Mobile—Dr. G. H. Wilkerson, 608 Congress St., let contract to N. Henninburg, for \$10,000 brick, 3-store building at N. W. cor. Davis and Morton Sts.

Ark., El Dorado—El Dorado Dry Goods Co. remodeling store at cost of \$33,600; W. B. Smith, Contr.

Fla., Pensacola—C. H. Turner Construction Co., Brent Bldg., has contract for repair work on Ray Hardware Co. building on S. Palafox St.; cost \$9200.

Fla., Tallahassee—W. H. Wilson, Contr., razing buildings at cor. Pensacola and Monroe Sts.; make room for building to be built by Senator W. C. Hodges.

Ga., Atlanta—Joseph W. England estate let contract to W. P. Francis, 133 Luckie St., for \$36,000, 2-story and basement, brick store building, 116-20 Spring St. N. W.; Pringle & Smith, Archts., Morris Bldg. 9-29

Ky., Paducah—J. W. Lockwood & Son, Contrs., 313-15 Kentucky Ave., let following sub-contracts on 2-story, brick, stone trim store and office building for John Oehlschlaeger, 1004 Jackson St.: Steam heating and plumbing, Ed D. Hannan, 321 Kentucky Ave.; electric work, Dolby Electric Co., Sixth and Broadway; plastering, Charles Osborn, 313 Kentucky Ave.; brick and concrete, Vandeveld & Augustus, 417 S. 17th St.; painting, Sanderson & Hancock, 2104 Broadway; W. Bryan Rouse, Archt., Weille Bldg. 9-29

La., Monroe—Monroe Tent & Awning Co., 117 S. Grand St., let contract to George Love, 500 L St., for \$12,000, 1-story, brick, 35x110 ft. commercial building on Grand St.; J. W. Smith & Associates, Archts., Ouachita Bank Bldg., Monroe.

La., Shreveport—John L. Gayle, 521½ Wichita St., let contract to Strubbe McConnell, 3404 Hearne Ave., for remodeling building at Milam and Edwards Sts., 4 stores with offices above; E. A. George, Archt., 1146 Kings Highway.

Md., Baltimore—Fischer Brothers, 104 Hopkins Pl., completed basement walls and steel for \$100,000, 2-story and basement, brick and

steel, 75x126-ft. department store building, S. W. cor. Baltimore and Fremont Ave.; concrete floors and foundation, built-up roof; reinforced concrete to Baltimore Fireproofing Co., Equitable Bldg.; steel, Dietrich Bros., 220 Pleasant St.; oil burner heating plant; Stanislaus Russell, Archt.-Engr., 11 E. Lexington St.; The Mervis Construction Co., Contr., 1650 E. Fayette St. See Want Section—Building Materials and Equipment. 9-22

Miss., Jackson—Conservative Investment Co. erecting 2-story building on Capitol St.; first floor to be occupied by L. K. Liggett Drug Co., W. Capitol St.

Miss., McComb—W. E. Drew started work on new building.

Miss., Meridian—John S. Sinclair, Kaye Bldg., started foundation work on \$10,000 flower shop at 23d Ave. and Ninth St.

Mo., Springfield—W. W. Johnson, Contr., 301 College St. Bldg., has permit for \$25,000, 1-story, brick, tile and stucco building, S. W. cor. National Blvd. and Elm St.

Mo., Springfield—Heirs of John W. Williams Estate wrecking old building, erect \$35,000, reinforced concrete, terra cotta face, 36x123 ft., fireproof stores building, N. W. cor. Patton Ave. and Walnut St.; 1 story with provision for 6 more; concrete foundation, concrete and wood floors, composition roof, steam heat; private plans; W. W. Johnson, Contr., 301 College St. Bldg. See Want Section—Building Materials and Equipment. 9-29

N. C., Belmont—Dixon Brothers let contract for brick 3-store building.

N. C., Murphy—Dr. N. B. Adams let contract to Dennis Barnett, for \$50,000 business building; composition and tile roof, hollow tile, stucco; J. J. Baldwin, Archt., 204-5 Taylor Bldg., Asheville. 9-29

Tenn., Rossville—James Kalanzis and associates let contract to J. Daneman for 6-store building, cost \$20,000.

Tex., Amarillo—Atkisson & Gunn let contract to George Parr Construction Co., 115 W. Sixth St., for \$12,000, 1 story 60x70-ft. building at W. Sixth and Harrison Sts.

Tex., Amarillo—Dr. D. S. Marsallia, Amarillo Bldg., let contract to Ross Williams, 1509 Ong St., for \$12,000, 1-story, 40x60-ft. building at 1502 Bowie St.

Tex., Corpus Christi—L. G. Collins let contract to J. W. Birmingham, 624 Mesquite St., for expansion and improvement of Nau Hardware Co. building on Mesquite St.

Tex., Quanah—S. B. Wells started work on 1-story brick building on Main St.; 25x90 ft.

Tex., San Angelo—Cornellison Bros. & Lyon, 17 E. Harris St., started work on \$25,000, 2-story, brick and tile, 75x100-ft. retail stores, 19-23 E. Harris St.; concrete foundation, wood floors, asbestos roof; A. W. Balfanz & Co., Archts., Abilene; Carter & Hall, Contrs. 9-1

Tex., Tulia—S. F. Flores erect 25x100 ft. brick building; Bates Estate erect 25x80 ft. brick building; Bates Brothers erect 25x80 ft. stucco building, S. E. cor. of square; contracts let.

Theaters

Miss., Ocean Springs—John T. McDonald & Son, Contrs., preparing to start work on new Illing Theater.

Va., Roanoke—D. J. Phipps, Contr., 603 Boxley Bldg., let following sub-contracts on \$500,000, 5-story, American Theatre and office building, for Sun Investment Co., Elmore D. Heins, Pres., 5 Campbell Ave., North: Miscellaneous iron work, Roanoke Iron Works, 321 3rd St., S.E.; millwork, Exchange Lumber Co., Walnut Ave. & 3rd St.; roofing (Barrett), copper skylights and ventilators, Harrison-Grimes Roofing Co., 121 Salem Ave. S. W.; hardware, Nelson Hardware Co., 17 Campbell Ave., S. W.; structural steel, Virginia Bridge & Iron Co., Madison Ave., N. E.; electrical work, Richardson-Wayland Electrical Co., 106 Church Ave., W.; plumbing and heating, Simpson & Basham, Kirk Ave., W.; common brick, Roanoke-Webster Brick Co., Inc., Boxley Bldg.; marble, R. N. Vanderberry, 507 Second St., S. W.; granite, Roanoke Marble & Granite Co., 17 W. Salem Ave.; brick work, tile and terra cotta work, D. J. Phipps & Son, Boxley Bldg.; all Roanoke; Gypsum roof, Keystone Gypsum Fireproofing Co., 47 W. 34th St.; metal windows, Campbell Metal Window Corp., 1 Pershing Square; terra cotta, Federal Terra Cotta Co., 101 Park Ave., all New York; steel, lumber and lath, Concrete Steel Co., Board of Trade Bldg., Norfolk; ornamental plastering, Phil Zentmyer, Johnson City, Tenn.; Kalamein doors

(bronze), Coeburn Trolley Track Mfg. Co., Holyoke, Mass.; cooling and heating systems, York Mfg. Co., York, Pa.; automatic stage ventilator, Superior Skylight Co., Long Island City, N. Y.; waterproofing, Western Waterproofing Co., Johnston Bldg., Charlotte, N. C.; face brick, Kitanning Brick & Fire Clay Co., Chamber of Commerce Bldg., Pittsburg, Pa.; tile, Palmetto Brick Co., Cheraw, S. C.; reinforcing steel, Knoxville Iron Works, Lonsdale, Knoxville, Tenn.; exterior brick work, stone and terra cotta work is completed; Barrett roof ready

for slag; tile partitions and metal lath in office portion of building about finished and plastering will start Oct. 1st; Smithey & Tardy, Archts., 112 Kirk Ave. West. 7-14

Warehouses

Ala., Tuscaloosa—Daniel-McGhee Transfer & Storage Co., started work on 70x200 ft., brick, \$20,000, 1-story and basement warehouse, cor 17th St. and Greensboro Ave.

Tenn., Fayetteville—J. A. Sloan Co. See Tenn., Gallatin.

Tenn., Gallatin—J. A. Sloan Co., wholesale grocers, Columbia, planning 1-story and basement, 60x220-ft., steel and concrete building; reported to cost \$70,000 to \$80,000; also erect duplicate of this building at Fayetteville; advise: "Have not yet given out any contract and think now that we will do the work principally ourselves, using a foreman for each part of the building." 9-15

Tenn., Memphis—Riverside Land Co. let contract to Creson & Cansler, for \$16,000, 1-story, brick warehouse at 340 W. Olive St.

THE CLASSIFICATIONS IN THIS SECTION ARE:

WANT SECTION

Machinery and Supplies

Under this heading are reported requests for data, prices and literature and information on machinery, supplies and miscellaneous materials of a wide variety.

Items in this department are published without charge and these columns are open for the publication of wants of all kinds relating to construction work, machinery, materials and supplies.

Building Materials and Equipment

This division comprises all classes and kinds of materials and equipment used in building and construction projects of every kind.

Bids Asked

Includes bids asked by U. S. Government, States, districts, municipalities, firms and individuals for machinery, materials, supplies and construction work.

Machinery and Supplies

Baking Powder Machinery, etc.—Southern Bakery Equipment & Supply Co. Inc., 160 Third Ave., South, Nashville, Tenn.—Wants prices on sugar mill and equipment for making extract whip powder, baking powder, cake mixes, etc.; consider used equipment if in good condition

Boiler.—Black Hardware Co., Strand between 22nd. and 23rd., Galveston, Tex.—Wants 75 h.p. boiler, vertical or horizontal, return tubular, 100 lb. working pressure, suitable for oil burning and complete with stack and mountings.

Brick and Tile Machinery.—Ben K. Green, (Genl. Delivery) Amory, Miss.—Wants data and prices on complete equipment for making brick and tile, capacity 25,000 to 50,000 daily, using gas for fuel.

Brick Machines.—Joseph A. Beasley, 1005 DeLeon St., Tampa, Fla.—Wants to correspond with manufacturers of high pressure brick machines.

Candy Factory Material and Machinery.—Oliver Carter, Wilmington, N. C.—Wants machinery and material required for small chewing gum and candy factory.

Canning (Fish) Machinery.—Florida Fish Products Corp., 130 N. Pineapple Ave., Sarasota, Fla.—Wants prices on cookers, coolers, conveyors, exhaust, fish cutters, and other machinery for fish cakes, fish chowder, etc.

Cars (Quarry).—Warner Moore & Co., Richmond, Va.—Wants rebuilt, second-hand quarry cars, either end or side dump, 36-in. gauge, 2 or 3-yd. capacity.

Conveyors.—Florida Fish Products Corp., 130 N. Pineapple Ave., Sarasota, Fla.—Wants prices on conveyors for canning plant.

Crate Making Machinery.—J. K. Smith, Sec., Chamber of Commerce, DeRidder, La.—Wants data and prices on machinery to manufacture crates or packages for shipment of produce, fruits, etc.

Electric Grinder.—Hackley Morrison Co., Inc. (Mchy. Dealer) 204 N. Jefferson St., Richmond, Va.—Wants bench type electric grinder for 6-in. or 8-in. emery wheel.

Engine.—R. P. Johnson (Mchy. Dealer) Wytheville, Va.—Wants dealers prices on 125 to 150 h.p. Corliss engine, good second-hand equipment.

Fish Packing Machinery.—See Canning (Fish) Machinery.

Generator Set.—Equitable Equipment Co. Inc., 410 Camp St., New Orleans, La.—Wants to purchase 40 to 50 kw., 3 phase, 60 cycle, 340 volt A.C. generator, direct connected to vertical steam engine; only complete with exciter and panel.

Generator.—Hackley Morrison Co., Inc., 204 N. Jefferson St., Richmond, Va.—Wants 10-15 kw. 110 volt D.C. 1200 r.p.m. generator with base, pulley and rheostat.

Hosiery Machinery.—L. Smith, P. O. Box 724, High Point, N. C.—Wants prices on hosiery machinery of all kinds.

Hot Water Heating Plant.—J. T. Ray, Mountain City, Tenn.—Wants to purchase good used hot water heating plant, about 1500 ft. capacity.

Knife Grinder.—W. M. Smith & Co. (Mchy. Dealer) Birmingham, Ala.—Wants automatic knifegrinder, 24-in. or larger.

Motor.—R. P. Johnson (Mchy. Dealer),

Wytheville, Va.—Wants dealers prices on 100 h.p., 3 phase, 60 cycle, 40 degree, 220 volt, 900 to 1,200 r.p.m., slip ring rebuilt motor.

Motor.—R. P. Johnson (Mchy. Dealer) Wytheville, Va.—Wants dealer prices on 50 h.p. motor, 3 phase, 60 cycle, A.C., 900 r.p.m. and also on two motors for 1800 r.p.m., complete with starter.

Pipe.—W. M. Smith & Co., Birmingham, Ala.—Wants 500 ft. of 10-in. good used pipe.

Poles.—See Telegraph Equipment.

Printing Plant.—Arthur Fuller, Box 854, Wilson, N. C.—Wants to purchase small second-hand plant for small newspaper together with job work.

Road Grader, etc.—Macon Junior Chamber of Commerce, Macon, Ga.—Wants grader, tractor and incidental small tools for development of 9 hole golf course.

Shovel (Gasoline Driven).—Hackley Morrison Co., Inc. (Mchy. Dealer) 204 N. Jefferson St., Richmond, Va.—Wants 1/3 or 1/2 yd. gasoline driven shovel.

Slack Lime Excavator.—Alt Engineering Co., 415 Capps Bldg., Fort Worth, Tex.—Wants slack line for excavation, capacity of bucket 1 to 1 1/4 yds. with gasoline operation, approximately 600 ft. span; prices on both new and second-hand equipment.

Telephone Equipment.—Thomaston Telephone Co., W. M. New, Pres.-Mgr., Thomaston, Ga.—Wants prices on central office equipment, including switchboard, telephones, cables, poles, station wire and No. 17 twisted pair wire.

Textile Mill Machinery.—Hillsboro Manufacturing Co., Hillsboro, N. C.—Wants prices on machinery to manufacture picker sticks, handles, roving, skewers, looms, loom blocks, etc.

Tractor.—See Road Grader, etc.

Tractors.—U. S. Land Co., Portsmouth, Va.—Wants data and prices on 5 to 10 ton tractors, crawler type.

Wood Working Machinery.—Geo. T. Wallace, care Wallace Co., Wallacetown, Va.—Wants machinery to manufacture wood novelties and dimension stock from maple, black and tupelo gum; correspond with manufacturers.

- (1) Water Pipe (Cast Iron)
- (2) Cement
- (3) Gravel
- (4) Street Lighting

U. S. Land Co., Inc., Portsmouth, Va., is developing 140 acres for residential purposes and wants the above.

- (1) Bolt Threader—Landis
- (3) Bulldozer
- (3) Die Sinker Machine
- (4) Drill—48-in. radial
- (5) Electric Hoist—1000 to 2000 lbs. capacity
- (6) Keyseater
- (7) Lathe—30-in.
- (8) Milling Machine
- (9) Shaper
- (10) Shears—steel splitting; Alligator 4-in. square billet capacity, also 2-in. square billet capacity; and squaring
- (11) Short Metal Rolls
- (12) Trucks—lift

W. M. Smith & Co. (Mchy. Dealer), Birmingham, Ala., wants the above equipment.

Miscellaneous

Blackboards.—J. A. Christ, Contr., 504 Clark Lane, Arcadia, Fla.—Wants prices on blackboards for \$10,000 school at Florida Baptist Children's Home.

Feldspar, etc.—See Marble Dust, etc.

Glass Bottles.—The Kill Spray Co., Box 1355, St. Petersburg, Fla.—Wants to purchase glass bottles in quantities, from manufacturers.

Lawn Mowers.—Rodgers & Co., Knoxville, Tenn.—Wants to correspond with manufacturers of horse drawn lawn mowers.

Linseed Meal.—The Pan-A-Cea Co., 19386 Omira, Detroit, Mich.—Wants to purchase linseed meal direct from mills; would like to purchase product with hulls, etc., sifted out.

Marble Dust, etc.—L. Hancock, 216 Beaumont Ave., Kissimmee, Fla.—Wants marble dust and chips, also quartz or feldspar for crushing and manufacturing purposes.

Plants (Greenhouse).—R. S. Anderson, Hawkinsville, Ga.—Wants to purchase plants at wholesale, direct from nurseries.

Scrap Zinc.—Cherokee Brick Co., Inc., Box 147, Macon, Ga.—Wants best price on scrap zinc.

Sprocket Chain.—Albaugh-Wright Lumber Co., 941 Austin St., San Antonio, Tex.—Wants light sprocket chain, about weight of chain used on motorcycles but of cheaper type as strength is secondary importance.

- (1) Budding and Grafting Tools
- (2) Plow—for taking up young trees
- (3) Transplanting machine
- (4) Spraying Equipment

H. G. Wallace, De Leon, Tex., wants the above equipment.

Building Material and Equipment

Atlee B. & Robt. M. Ayres, Archts., 626 Bedell Bldg., San Antonio, Tex., wants prices on following for \$250,000 bank building:

- Cast Stone
- Elevator
- Flooring—terrazzo, tile
- Marble
- Roofing—built-up
- Tile—hollow
- Vaults
- Vault Lights
- Ventilators
- Wire Glass.
- Chas. F. McKenzie, Co., Contr., 144 N. E. Sixth St., Miami, Fla., wants prices on following for \$100,000 dwelling, Miami Beach:
- Cast Stone
- Flooring—tile
- Plaster Board
- Roofing—Carey built-up, Cuban tile.
- Chas. F. McKenzie Co., 144 N. E. Sixth St., Miami, Fla., low bidder for bridge across Haines Creek, Rod No. 2, Lake County, wants:
- Cresotated Timber—100,000 ft., dimension
- Galvanized Bolts—5 tons
- Cresotated Timber Pile—7000 ft.
- B. Goodman, 82 Madison Ave., Memphis, Tenn., wants prices on following for \$25,000 residence:
- Flooring—hardwood, tile
- Mail chutes
- Plaster Board
- Roofing—tile
- Steel Sash and Trim.

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Dade County Board of Public Instruction, Miami, Fla., wants prices on following for \$20,000 Kendall school:

Roofing—built-up
Steel sash and trim
Tile—hollow.

Miss Agnes Forrin, 2402 Broadway, San Antonio, Texas., wants prices on following for \$41,000 apartment house:

Dumb Waiters
Electric Refrigerators
Flooring—composition and tile
Roofing—built-up and tile.

R. A. Morgan, Mgr., Southern Brighton Mills, Shannon, Ga., wants prices on following for church:

Flooring—linoleum
Metal Ceilings
Rolling Partitions
Roofing—asphalt shingle.

R. D. Evans, Supt., Recreation Dept., Fort Worth, Tex., wants prices on following connection with municipal camp, cost \$25,000 to \$100,000:

Electric Refrigerators
Flooring—terrazzo
Incinerator
Metal Ceilings
Roofing—asphalt shingle, tile
Sprinklers
Steel Sash and Trim
Ventilators
Wire Glass.

Wm. D. Van Sicken & Co., Archts., 9 Maltby Bldg., Brownsville, Tex., want prices on following for \$15,000 dwelling:

Electric Refrigerator
Flooring—hardwood, tile
Incinerator
Roofing—tile.

W. W. Johnson, Contr., 301 College St. Bldg., Springfield, Mo., wants prices on following for \$35,000 stores building:

Flooring—hardwood
Steel—reinforcing
Terra cotta
Tile—gypsum and hollow.

Baptist Church, Seecoba, Miss., wants prices on following for \$7850 church:

Electric Refrigerators
Flooring—composition
Roofing—asbestos shingle, asphalt shingle
Tile—hollow.

Elizabeth Temple, care C. D. Watkins, Route No. 2, Concord, N. C., wants prices on all materials except brick, steel and roofing to rebuild church damaged by storm; cost \$20,000; including:

Plaster Board
Sprinklers.

Gau & Vogel, Contrs., Box 1057, Amarillo, Texas, wants prices on following for school building:

Hollow tile
Rubber tile.

The Mervis Construction Co., 1650 E. Fayette St., Baltimore, Md., wants prices on following for \$100,000 Fischer Bros. department store:

Cast stone
Flooring—composition and tile
Limestone
Marble
Metal ceilings and doors
Rolling partitions
Roofing—built-up
Steel sash and trim
Tile—gypsum and hollow
Terra cotta trim
Ventilators
Wire glass.

Bids Asked

Automobile Supplies.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids Oct. 12 to furnish automobile supplies, delivery Quantico, Va. Sch. No. 179.

Beartrap Leaves.—U. S. Engineer Office, P. O. Box 72, Louisville, Ky.—Receives bids Oct. 14 to furnish labor and material to fabricate and erect beartrap leaves for Dam 52, Ohio river.

Bridge.—Washington, D. C. See Construction News—Bridges, Culverts, Viaducts.

Bridge.—Portsmouth, Va. See Construction News—Bridges, Culverts, Viaducts.

Bridge, etc.—State of Alabama receives bids for 8 bridges and 3 culverts. See Construction News—Roads, Streets, Paving.

Bridge.—State of Tennessee receives bids for 3 bridges. See Construction News—Bridges, Culverts, Viaducts.

Cable.—Purchasing Agent, Post Office Dept., Washington, D. C.—Receives bids Oct. 12 for 30,000 ft. electrical cable.

Cocks and Coupling.—District Commrs., Washington, D. C.—Receives bids Oct. 10 for 2,080 brass corporation cocks, 1,620 brass curb cocks for iron pipe and 1,895 brass couplings.

Decalcomanias.—Purchasing Agent, Post Office Dept., Washington, D. C.—Receives bids Oct. 12 for 38,000 decalcomanias.

Drainage.—Seminole County Supvrs., Slavia Drainage Dist., P. Bayard Smith, Sec., 116 S. Park Ave., Sanford, Fla.—Receives bids Nov. 1 for approximately 5 mi. canal, 99,000 cu. yds. and lateral ditches, 42,500 cu. yds.; Fred T. Williams, Ch. Engr.

Dredging Sleeves.—U. S. Engr., Galveston, Tex.—Receives bids Oct. 10 for fifty 26-in. rubber dredging sleeves.

Electric Refrigerator.—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Oct. 11 for electric refrigerator for U. S. V. Hospital, Washington.

Electric Traffic Signal Equipment.—H. D. Hockersmith, Mayor, Vernon, Tex.—Receives bids Oct. 18 for electric traffic signal equipment for nine or more stations, to be placed on No. 1005 Union Steel Standard lamp posts (which are erected) also timer control to be mounted on wall; S. I. Vaughn, City Electrician.

Enamel, etc.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids Oct. 12 to furnish enamel, etc.; delivery Quantico, Va. Sch. 180.

Engine.—U. S. Engr., Galveston, Tex.—Receives bids Oct. 19 for 1 vertical propelling engine of full Diesel type.

Filter Plant.—City of Cocon, Fla., F. H. McFarland, Mayor—Receives bids Oct. 14 for following material for construction of filter plant: J. B. McCrary Engineering Corp., Constr. Engrs., Atlanta, Ga., including:

- (1) Bars (Reinforcing)—98,600 lbs.
- (2) Brick—27,000 common
- (3) Cement—900 bbls. Portland
- (4) Dry Feed Machine
- (5) Chlorinator
- (6) Elevator
- (7) Concrete Sand—300 cu. yds.
- (8) Laboratory Equipment
- (9) Motors—two 40 h.p., one 7½ h.p. and four 3 h.p. electric motors
- (10) Pumps (Centrifugal) two 500, and one 250 centrifugal and four 120 g.p.m. triplex
- (11) Stone and Washed Gravel—700 tons
- (12) Tank and Tower—one 30,000 gal. steel tank on 40 ft. tower
- (13) Flow Meter, etc.—cast iron manifolds, rate controllers and 2500 sq. ft. ¼-in. transite.

Fire Extinguisher Recharges.—Purchasing Agent, Post Office Dept., Washington, D. C.—Receives bids Oct. 12 for 400 qts. and 800 gals. fire extinguisher recharges.

Fire Fighting Equipment.—Johnnie Nelson, City Sec., Gainesville, Tex.—Receives bids Nov. 8 for 750 gal. combination hose and pumper car.

Fire Fighting Equipment.—City of Houston, Tex., O. F. Holcombe, Mayor.—Receives bids Oct. 12 to furnish 750 gal. per min. triple combination pumper and hose car and 750 gal. per min. combination pumper and hose car for new fire station No. 19.

Floor Machines.—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Oct. 8 for 6 floor machines.

Flooring.—Constructing Quartermaster, Ft. Lewis, Wash.—Receives bids Oct. 14 for installing mastic flooring in field artillery barracks.

Forage.—Quartermaster Supply Officer, Ft. Sam Houston, Tex.—Receives bids Oct. 18 for forage.

Glasses.—U. S. Shipping Board Emergency Fleet Corp., Washington, D. C.—Receives bids Oct. 10 for 700 doz. glasses.

Gravel.—Meridian, Miss. See Construction News—Roads, Streets, Paving.

Gravel.—Benton, La. See Construction News—Roads, Streets, Paving.

Gravel.—Natchitoches, La. See Construction News—Roads, Streets, Paving.

Hardware, etc.—Marine Corps, Quartermaster, Dept., Washington, D. C.—Receives bids Oct. 17 to furnish hardware, iron bars, etc.; delivery Quantico, Va. Sch. 187.

Heating System.—Quartermaster Office, St. Louis, Mo.—Receives bids Oct. 14 for hot water heating system in superintendent's lodge, National Cemetery, Fayetteville, Ark., superintendent's lodge, National Cemetery, Corinth Miss. and at National Cemetery, Memphis, Tenn.

Hospital Supplies.—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Oct. 10 for hospital supplies.

Incinerator.—Director Public Works, R. Keith Compton, Richmond, Va.—Receives bids Nov. 10 to furnish and install garbage incinerator, including necessary alterations to present building and removal of present incinerator, capacity to be 100 tons per 24 hrs., two units.

Ink.—Director of Purchase and Sales,

Dept. of Agriculture, Washington, D. C.—Receives bids Oct. 11 for lithographic ink.

Laundry Machinery.—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Oct. 22 for laundry machinery for U. S. V. Hospital, Bedford, Mass.

Levee.—Office Dist. Engrs., Northern Mississippi River Comsn., Dist., Room 435, Customhouse, St. Louis, Mo.—Receives bids Oct. 11 to construct about 35,000 cu. yds. earthwork in Levee Dist. No. 3, Perry County and 20,000 cu. yds. in Ste. Genevieve Levee Dist. No. 1.

Linen Marking Machine.—U. S. Veterans Bureau, Supply Div., Washington, D. C.—Receives bids Oct. 10 for linen marking machine for U. S. V. Hospital, Muskogee, Okla.

Miscellaneous Supplies.—Panama Canal, A. L. Flint, General Purchasing Officer, Washington, D. C.—Receives bids Oct. 8 to furnish following. Blank forms and information (Circular 2447) on application to Panama Canal; Asst. Purchasing Agts. at Fort Masons, San Francisco, Calif.:

Miscellaneous Supplies.—Bureau of Supplies and Accounts, Navy Dept., Washington, D. C.—Receives bids Oct. 18 for shovels, spades, dust pans, hoes, trowels, rakes, etc.

Miscellaneous Supplies.—Bureau of Accounts and Supplies, Navy Dept., Washington, D. C.—Receives bids Oct. 11 to deliver hardware, electric glue pots, ferro-manganese, motor trucks, etc. to Navy Yard, Norfolk, Va.

Pneumatic tools and accessories; air hose and couplings; knife switches; insulators; fusible plugs; telephone cords; wheel barrows; step ladders; railroad lanterns; grindstone frames; varnish; foundry blacking; sponges, etc.

Oil, etc.—U. S. Shipping Board Emergency Fleet Corp., Washington, D. C.—Receives bids Oct. 12 for steam cylinder oil, superheat cylinder oil, ice machine cylinder oil, gasoline fuel, etc.

Paint and Paint Brushes.—Marine Corps, Quartermaster Dept., Washington, D. C.—Receives bids Oct. 13 for paint and paint brushes; delivery Quantico, Va. Sch. 183.

Paving.—Baltimore, Md. See Construction News—Roads, Streets, Paving.

Pipe and Fittings.—O. F. Holcombe, Mayor, Houston, Tex.—Receives bids Oct. 12 for 4150 lin. ft. of 12-in., 1600 lin. ft. of 8-in., 296 lin. ft. of 6-in. cast iron pipe, Class B., and one lot class B. fittings.

Plugs.—Purchasing Agent, Post Office Dept., Washington, D. C.—Receives bids Oct. 12 for 500 electric attachment plugs and 300 2-way or twin sockets.

Press Parts.—Director of Purchase and Sales, Dept. of Agriculture, Washington, D. C.—Receives bids Oct. 11 for printing press parts.

Removal of Wreck.—U. S. Engr., Norfolk, Va.—Receives bids Oct. 10 for removing wrecked ferry boat Rebecca.

Road.—State of Virginia receives bids for 2 roads. See Construction News—Roads, Streets, Paving.

Road.—Meridian, Miss. See Construction News—Roads, Streets, Paving.

Road.—State of Maryland receives bids for 2 roads. See Construction News—Roads, Streets, Paving.

Road.—Jasper, Ala. See Construction News—Roads, Streets, Paving.

Road.—Natchitoches, La. See Construction News—Roads, Streets, Paving.

Road.—Benton, La. See Construction News—Roads, Streets, Paving.

Road.—State of Alabama receives bids for 5 roads. See Construction News—Roads, Streets, Paving.

Road.—Waxahachie, Tex., receives bids for 3 roads. See Construction News—Roads, Streets, Paving.

Roofing Materials.—Quartermaster Office, Camp Meade, Md.—Receives bids Oct. 7 for 1,500 rolls prepared asphalt roofing, 100 gals. lap cement and 900 gals. roof coating asphalt.

Roofing (Tin).—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids Oct. 14 to furnish 500 sheets tin roofing; delivery Quantico, Va. Sch. 186.

Sewers.—City of Asheville, N. C., Joe B. Seay, Pur. Agt., Stanley H. Wright, Ch. Engr.—Receives bids Oct. 8 for furnishing f. o. b. Asheville, reinforced concrete pipe; laying pipe, manholes; repairs to old culvert; changing sewer connections.

Sewers.—City of Decatur, Ala., E. W. Collier, Clk.—Receives bids Oct. 18 for furnishing materials and for constructing storm sewer on Sherman St. from Maple to 18th Ave. East; 287 ft. 15-in. pipe, 13 inlets, 60 ft. of 18-in., 1045 ft. 24-in. pipe.

Shore Pipe.—U. S. Engr., Galveston, Tex. Receives bids Oct. 10 for 600 lengths, about 10,200 ft., welded or riveted shore pipe.

Steel File Units.—Marine Corps, Quartermaster's Dept., Washington, D. C.—Receives bids Oct. 14 to furnish fifteen 5-drawer vertical steel file units; delivery Washington, D. C. Sch. No. 178.

Street.—Birmingham, Ala. See Construction News—Roads, Streets, Paving.

Street.—Brookhaven, Miss. See Construction News—Roads, Streets, Paving.

Street.—San Benito, Tex. See Construction News—Roads, Streets, Paving.

Street.—Baltimore, Md. See Construction News—Roads, Streets, Paving.

Street.—Ocilla, Ga. See Construction News—Roads, Streets, Paving.

Tin.—Chemical Warfare Service, Edgewood Arsenal, Md.—Receives bids Oct. 17 for 1,792 sheets perforated tin.

Trailer.—Orange County Comms., Orlando, Fla.—Receives bids Oct. 10 to furnish heavy duty trailer, delivered f. o. b. County sidetrack; A. L. Wright, County Road Supt., 132 W. Kaley Ave.

Water Tank.—M. E. Dubose, Mayor, Devine, Tex.—Receives bids Oct. 15 for furnishing labor and materials and erecting steel water tower and 50,000 water tank; Walton & Arneson, Civil Engrs., 422 Gunter Office Bldg., San Antonio, Texas.

Water Works.—City of Parkersburg, W. Va., W. E. Stout, Mayor.—Receives bids Oct. 26 for furnishing and installing wells, well pumping and other equipment; Morris Knowles, Inc., Engrs., 507 Westinghouse Bldg., Pittsburgh, Pa.

Wire Rope Clips.—Third Miss. River Dist., P. O. Box 404, Vicksburg, Miss.—Receives bids Oct. 7 for 200,000 wire rope clips.

Trade Literature

J. T. Tractor Booklet.

An illustrated folder published by the J. T. Tractor Company of Cleveland, Ohio, gives full particulars about their Model 45 JT Tractor, which is described as the "latest development of years of manufacturing experience and experiment, in which the many requirements of an ever-expanding field are taken into consideration." There is a series of pictures showing these tractors operating under various conditions, summer and winter. Complete specifications are also presented.

McMyler-Interstate's Fine Booklet.

The McMyler-Interstate Company, Cleveland, Ohio, has published a very interesting booklet of large pages, amply illustrated and bearing the title "A Trip Through One of Cleveland's Large Industrial Plants." It was issued with the idea of indicating by means of illustrations the extent of the company's plant operations, the completeness of their facilities, etc. An effort was also made to include a sufficiency of pictures to be an index of the company's line of products. These illustrations are very fine and serve their purpose admirably. No better manner of impressing the reader with the magnitude of the plant and its enterprise could scarcely be conceived.

New Catalogue by Lakewood Engineering.

The Lakewood Engineering Company, Cleveland, Ohio, has issued a new catalogue giving complete details about material handling in industrial plants, terminals and warehouses through the use of the Lakewood storage battery tier-lift trucks. In addition to the standard units there are a number of special types of trucks shown for meeting unique problems that arise in the industrial handling of materials. The book is generously illustrated to show methods of reducing costs in storage and inter-plant transportation. Anyone interested in obtaining a copy of the catalogue should ask the company for "Storage Battery Tier-Lift and Tractor, Bulletin No. 35-A."

Two Books On Keystone Drills.

The Keystone Driller Company, Beaver Falls, Pa., has issued two new catalogues of broad interest. The first is the general drill catalogue, a book of 106 pages, describing the complete line of Keystone well drills for all purposes, including water-well drilling, blast-hole boring, mineral prospecting, placer gold testing and oil and gas well drilling. A number of new models of the portable oil drill are described, new applications of gas power, new methods of transportation and new features of well-drilling equipment. The second publication is the Keystone blast-hole drill catalogue of 60 pages, relating to the specialized portable well drills—traction and non-traction—for use in drilling blast holes in cement and in limestone quarries, as well as in heavy excavation. This book also contains information on the best methods of spacing drill holes, loading and shooting. The historical pages at the beginning of each book will also be found of general interest.

Safety Stair Tread Circulars.

In a folder that is ready to file the Safety Stair Tread Company, Wooster, Ohio, is sending out several circulars and folders, illustrated, and relative to their product. Diagrams in blue and white show these stair treads as they are used on stairways of different construction, viz., concrete, pressed steel, marble, slate or stone and wood. Wooster Security Nosing for use on stair treads, with linoleum, mastic, cork, tile, rubber, magnesite and composition to protect the edges, is also described. This nosing is made of polished yellow brass. Directions are given concerning stair construction and use of the company's products.

Facts About Fire Prevention.

The October issue of "Doorways," published by the Richards-Wilcox Manufacturing Company, Aurora, Ill., has been made particularly a fire-prevention issue, National Fire-Prevention Week being from October 9 to 15, inclusive. Among the numerous products of the company are fire doors, automatic fire-door hardware, fusible links, fire-station-door hardware and much other material for building doorways. The R-W self-closing fire doors are amply described with accurate illustrations. The information concerning fires and causes of fires will be found interesting and valuable.

American Rolling Mill Booklet.

Galvanized sheet metal is now so extensively used that every prospective buyer finds it of advantage to acquaint himself with its merits and its uses in the broadest way possible. "Pure Iron Durability," published by the American Rolling Mill Company, Middletown, Ohio, will, the company believes, help him to accomplish this purpose. This little illustrated booklet, which is so small that it can be easily put in the pocket to be read in any moments of leisure, will be found of decided advantage in this connection. It gives the facts concisely.

Butler Weighing Hoppers.

The Butler Bin Company, Waukesha, Wisconsin, have just issued Bulletin No. 150 under the title "Butler Weighing Hoppers." This is a 12-page bulletin, profusely illustrated, and it describes in detail the method of proportioning aggregates by weight. These weighing hoppers can be used either on concrete road jobs, as central proportioning plants or central mixing plants. Copies of the bulletin may be had by request addressed to the company.

M. & M. Wire Clamp Booklet.

The M. & M. Wire Clamp Company of Minneapolis, Minn., Howard O. McMillan, president, has issued a booklet of large pages, with the title, "A Guaranteed Way of Saving Labor and Materials When Building Concrete Forms." It covers successively the company's wire clamps, splicing clamps, column clamps, adjustable shores, targets, screed gauges, sheeting darts, invisible ties, strip ties, toe rod clamps, wire cutters and wire nippers. The book is finely printed and is comprehensively illustrated.

Jeffrey Manufacturing Company Catalog 433.

The Jeffrey Manufacturing Company, Columbus, Ohio, has issued Catalogue No. 433, describing and illustrating the Jeffrey material-handling equipment and containing practical suggestions for the handling of materials in industrial plants, warehouses, etc. It is remarked that to the plant executive who is responsible for production costs this new publication suggests many practical ways of reducing handling expenses, saving valuable floor space, etc. Page two lists the types of Jeffrey equipment and the succeeding pages show them engaged in a variety of industries. The book is finely printed on heavy paper and the pictures are unusually clear.

American Engineering Standards.

The Year Book of the American Engineering Standards Committee for 1927, which has been revised to May 1 of this year, has been published by the committee, whose address is 29 West 39th street, New York city. There are 80 pages in the book, which is comprehensive. On the title page is the following: "Standardization is dynamic, not static. It means not to stand still, but to move forward together." Elsewhere the book says, among other things, that standardization not only simplifies manufacturing processes, stabilizing production and employment, but it lowers cost to the public by making mass production possible. This and many other facts are brought out in an interesting and valuable manner.

Book Review

Re-Forging America; the Story of Our Nationhood. By Lothrop Stoddard, A. M., Ph.D. (Harvard). New York and London. Charles Scribner's Sons. 1927. Cloth. Gilt. Pp. 380.

The author of this volume has a style which attracts and holds the attention of the reader. His manner is friendly and cordial. The foundations of the old America, the beginning of national life, the first forging of the country and the "schism of the Civil War," as he terms it, constitute the first four chapters and awaken the attention and thought of the reader, preparing him to follow the course laid down through the remainder of the volume and to carefully digest its contents. The story is of how, on the deep foundations of the long colonial past, there arose a splendid young nation, and it goes on to show how the bright promise of the early days of our history was darkened by the disaster of the Civil War and by the blight of alien factors. Finally, it tells how, after over half a century of deepening confusion, which threatened to destroy our ideals, our culture, our very nationhood, we awoke to the peril and are today engaged in the inspiring task of fulfilling the early promise of American life. It envisages fully and fearlessly such problems as the negro and the alien, and suggests principles upon which they can be met and solved.

INDUSTRIAL NEWS OF INTEREST

Items of news about industrial, railroad or financial interests, building operations, construction work, municipal improvements, or the sale of machinery or the letting of contracts in the South or Southwest, are invited from our readers, whether they are advertisers, or subscribers, or not. We invite information of this character from readers in the North and West about their Southern business operations, as well as from Southern readers. News of value will be published just as readily when from non-advertisers as from advertisers.

Great Prospects Described for Coal Distillation Plant at New Brunswick, N. J.

The Public Service Corporation of New Jersey has closed a contract to purchase a minimum of 10,000,000,000 feet of gas during the next ten years from the new low-temperature coal-carbonization plant to be erected at New Brunswick, N. J., by the International Combustion Engineering Corporation, 200 Madison avenue, New York city, according to an announcement made last week. It is further stated that this plant will be the first to be built by the Engineering Corporation in this country, but that the process has been in successful commercial operation for several years at Essen, Germany, where thousands of tons of coal have been distilled and the products sold. The New Brunswick plant will handle approximately 250,000 tons of bituminous slack coal per year through an initial installation of eight units. In addition to the gas, which is a by-product, the plant will produce 6,000,000 gallons of coal tar per year, all of which has been contracted for by the F. J. Lewis Manufacturing Company of Chicago, and 1,250,000 gallons of crude motor spirits, which is said to be higher in power than the present blended gasoline. There will also be produced from the coal tar of this plant 2,750,000 gallons per year of the heavier distillates, which will be used for wood preservatives, the manufacture of disinfectants, flotation oils and plastics. After the coal is distilled and all of the valuable by-products have been taken from it there will also be marketed from this plant approximately 175,000 tons of a domestic smokeless fuel possessing, it is stated, all of the advantages of anthracite coal, with none of its disadvantages—such as high ash—and of a value of over \$1,750,000 a year.

Valuable Process to Stop Corrosion.

Witt-Humphrey Steel Company is the new name that has been adopted by the Witt Steel Company, Greensburg, Pa., and the capitalization of the company has been increased from \$300,000 to \$600,000. There has not been any other change. In this connection it is interesting to note that President Charles V. Witt, M. E., delivered a very interesting address at the convention of the Central Water-Works Association, which was held at Akron, Ohio, September 15 and 16, his subject being "The Metal-Spraying Process and Its Applications." This process, he says, applies molten-metal coatings of any commercial metal on any base, such as cast iron, steel, wood, stone, leather, glass, concrete, paper and fabrics of all kinds. The company has issued a booklet of large pages, finely illustrated and giving complete information concerning this process, which is called "Metalayer," and it is used to stop corrosion.

Chicago Bridge & Iron Works Big Order.

The Angelo Mexican Petroleum Company, Ltd. (Royal Dutch-Shell) have awarded a contract to the Chicago Bridge & Iron Works of Chicago, Ill., involving 9000 tons of tank work. It includes the fabrication and erection of more than 50 tanks and all of the miscellaneous plate work in connection with the building of a large new refinery on the island of Aruba, Dutch West Indies.

Austin Company Completes Fine Hangar.

A hangar of the latest type has just been completed at the Cleveland airport for the Thompson Aeronautical Corporation, a subsidiary of the Thompson Products Company, Cleveland, Ohio. The new hangar is 70 by 100 feet and has a clear span. The floor is of concrete, well drained, with a concrete apron extending out in front of the hangar 40 feet. The clearance under the steel trusses will permit accommodation of ships higher than any of those in use today. The interior of the hangar is well lighted, owing to the use of continuous steel sash around three sides of the building. The doors roll on tracks so easily that a large section can be shifted with only a few pounds' pressure. The hangar was designed, built and equipped by the Austin Company of Cleveland, widely known builders of aviation structures. The office and stores department, which adjoins the hangar, is of one-story, brick and steel construction, 15 by 50 feet. The hangar was completed in ten days from the time the steel arrived.

Orders for Electric Cranes and Hoists.

The Box Crane and Hoist Corporation, Philadelphia, Pa., manufacturers of electric and other traveling cranes, electric hoists, grab bucket, jib and other cranes, grab-bucket hoists, chain hoists, monorail systems, etc., report receiving within ten days orders from the American Fabricated Steel Company of Philadelphia, the Minnesota and Ontario Power Company of Minneapolis, the Warren Manufacturing Company of Milford, N. Y., the Chateaugay Ore and Iron Company of Scranton, Pa., and the Mississippi Valley Structural Steel Company, Melrose Park, Ill., the last order including 24 Type L electric hoists with I-beam trolleys.

All About Southern Pine.

"Southern Pine, the Supreme Structural Wood of the World," is the title given to a large, fine book of more than 60 pages published by the Southern Pine Association, New Orleans, La., which is bountifully illustrated and entertainingly as well as instructively written. It tells all about the manifold uses of this standard product of the South, which is used to make tanks, farm implements, freight cars, bridges, platforms, floors, joists, roofs, woodwork in homes, cabinet work, garden furniture, boardwalks at seaside resorts, grandstands, speedways, bowling alleys, ships, boats, etc. In fact, it is hard to find any work to which Southern pine is not adapted in a superior manner.

Machine Tools, Equipment, etc., to be Sold.

According to formal announcement, published elsewhere in this issue, there will be a peremptory liquidation sale of machine tools, equipment and supplies of the Universal Machine Company on Tuesday, October 18, by public auction on the premises at the Industrial Building, 501-9 East Preston street, Baltimore, Md. Samuel T. Freeman & Co. of Philadelphia and Boston are the auctioneers. Particulars will be found in the advertisement.

Chicago Pneumatic Tool Appointment.

The Chicago Pneumatic Tool Company, 6 East 44th street, New York, has announced the appointment of J. C. Fitzpatrick as district manager of sales at 1241 East 49th street, Cleveland, Ohio, to succeed J. L. Westenhaver, who has resigned to enter into business for himself.

Kansas City Branch in New Quarters.

The office and warehouse of the Kansas City branch of the Gallon Iron Works and Manufacturing Company, R. L. Boston, manager, is now located at 1205-07 Woodsweather avenue, Kansas City, Mo., in a big new building owned by the company, whose headquarters are at Gallon, Ohio. This branch, like that lately noted at Orlando, Fla., means big increases in warehouse stocks of both parts and complete rollers and graders.

Manufacturing Plant to Be Sold.

The public-auction sale of stock, plant and equipment of the Boyce and Veeder Company, Inc., manufacturers of "Boyceite," will take place at Farmingdale, Long Island, N. Y., on Thursday, October 20, at 1 o'clock P. M., according to a formal announcement that appears elsewhere in this issue. M. Fox & Sons Co. of Baltimore, Md., are the auctioneers, from whom catalogue and details can be obtained. Further particulars will be found in the advertisement.

Sale of Navy Surplus and Material.

Announcement is made elsewhere in this issue of the forthcoming sale on October 25 of a large amount of navy surplus and surveyed material at the Navy Yard, New York, Philip Smith of that city being the auctioneer. The sale will include large amounts of ferrous and non-ferrous metals, pipe and boiler tubes, besides several thousand pairs of shoes, also clothing, tools, office equipment, furniture, machinery, smokeless powder, radio and electrical equipment, boat and ship fittings, etc. Further particulars will be found in the advertisement.

Wood "Bath Tub" Truck Bodies for Wet Concrete.

The Wood Hydraulic Hoist and Body Company, Detroit, Mich., in the September issue "The Wood Hoister," reports great success of and demand for the Wood special wet mix or "bath tub" bodies for trucks. These bodies, it is claimed, give perfect results because of their rounded form. They are semi-circular in cross-section and the sides are straight for a short distance above the concavity of the body. There is a rounded plate at the front end of the body, so the entire inside surface is smooth. Thus the wet mix is prevented from sticking to the body so that the whole load is dumped clean. The body has extension sides, so that when a one-batch load is hauled the wet mix will not spill in transit.

Milburn Opens Branch in Boston.

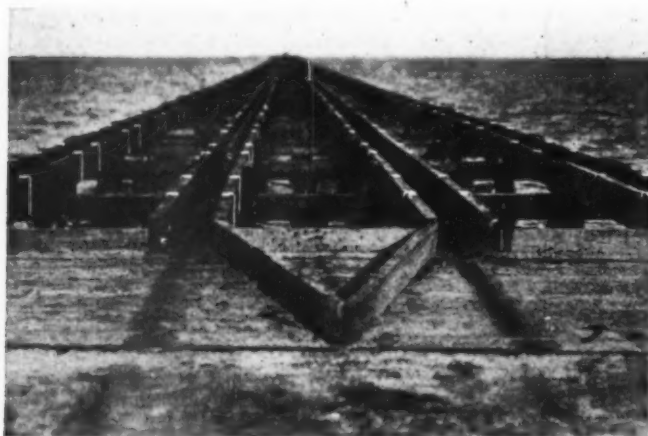
The Alexander Milburn Company of Baltimore, Md., manufacturers of welding and cutting apparatus, portable carbide lights, oil burners and preheaters and paint and lacquer spraying equipment, has organized an office in Boston to be known as the Alexander Milburn Sales Company, Wiggin Terminals Building, 50 Terminal street, Boston, Mass. This office is under the supervision of M. B. Crouse and G. B. Malone, both experienced executives in welding and cutting equipment.

Long Causeway of Unique Construction Completed at Corpus Christi.

By VANCE GRIFFITH, Corpus Christi, Texas.

Giving access to the longest ocean beach driveway in Texas, the Don Patricio Causeway which connects Corpus Christi and the mainland with Padre Island was officially opened this summer.

The causeway is $3\frac{1}{2}$ miles long. Its construction was sponsored by the Corpus Christi Chamber of Commerce and resi-



CAUSEWAY CONNECTING CORPUS CHRISTI WITH THE MAINLAND.

dents of the city subscribed to \$35,000 worth of stock so that Col. Sam Robertson, builder of the causeway and head of the Ocean Beach Driveway, might carry out his project.

Colonel Robertson was the engineer in charge. The wheels of vehicles using this double-track causeway run in two troughs. These are about 12 inches wide and approximately the same depth; part of the depth, however, is taken up by a mixture of sand, gravel and oil which makes an artificial rut for the tire to follow.

Colonel Robertson believes that by this method of construction the causeway will last for many years and will be safer than other form of construction.

The causeway is supported by 3903 piles. There are 1301 bents with three piles to the bent. All of the trestle work is constructed of heavy timbers and durable iron and steel.

At the island end a four-mile road has been constructed; it leads directly across Padre Island to the Ocean Beach Driveway. This gives a ready access to the straight ocean beach drive and to one of the country's great fishing and hunting grounds.

Now that the causeway is open and in an active stage of operation, residents and visitors of Corpus Christi are able to make the entire scenic drive around Corpus Christi Bay and return to the mainland by way of Port Aransas and Aransas Pass.

The Alamo Iron Works, San Antonio, Texas, furnished the iron and steel. The Garrison Lumber Company, Corpus Christi, furnished the lumber.

Architects for \$1,000,000 Universalist Church.

According to information from Dr. John Smith Lowe, Boston, Mass., general superintendent of the Universalist General Convention and chairman of the committee on site and building, Allen & Collens of Boston have been engaged as architects for the proposed \$1,000,000 National Universalist Church to be erected in Washington, D. C. The structure will be located at 16th and S streets northwest, and it is understood that nation-wide co-operation will be procured in its construction.

Sales and Distribution of Lime in 1926.

Lime sold by producers in the United States in 1926 amounted to 4,560,398 short tons, valued at \$41,566,452, according to final reports of lime manufacturers to the Bureau of Mines. This represents a decrease of less than 1 per cent in quantity and of 2 per cent in value as compared with 1925. Sales of hydrated lime, which are included in these figures, amounted to 1,606,811 tons, valued at \$15,182,460, an increase of 3 per cent in quantity and a small decrease in value.

Sales of lime used in the manufacture of chemicals increased 3 per cent in quantity; lime sold for construction decreased 3 per cent in quantity, and that sold for agricultural purposes was only slightly less than in 1925.

LIME SOLD BY PRODUCERS IN THE UNITED STATES, 1925-26, BY USES.

Use	1925		1926	
	Short tons	Value	Short tons	Value
Agricultural	298,976	\$2,129,169	297,010	\$2,153,233
Building	2,387,267	24,115,420	2,320,323	23,227,034
Chemical:				
Glass works	73,011	622,909	84,263	713,321
Metallurgy	411,190	3,007,228	408,234	2,860,338
Paper mills	376,670	3,174,851	423,322	3,492,996
Refractory lime (dead-burned dolomite)...	392,147	3,730,510	386,715	3,593,731
Sugar refineries	19,089	280,985	15,379	238,188
Tanneries	62,933	557,187	66,536	584,296
Other uses	559,540	4,990,882	558,616	4,703,315
Total chemical.....	1,894,580	\$16,364,552	1,943,065	\$16,186,185
	4,580,823	\$42,609,141	4,560,398	\$41,566,452
Hydrated lime (Included in above totals).....	1,560,848	\$15,287,461	1,606,811	\$15,182,460

SHIPMENTS OF LIME IN 1926, BY FREIGHT DESTINATIONS.

Destination	1926		
	Hydrated lime	Quicklime	Total
Ill., Ind., Mich., Ohio.....	449,503	697,928	1,147,431
Del., D. C., Md., N. J., N. Y., Pa., W. Va.....	628,398	1,046,206	1,674,604
Conn., Me., Mass., N. H., R. I., Vt.	67,709	234,995	302,704
Fla., Ga., N. C., S. C., Va.....	172,082	142,532	314,614
Ala., Ky., La., Miss., Tenn.....	72,234	289,778	362,032
Ark., Iowa, Kan., Minn., Mo., Neb., Okla., Tex., Wis.....	167,265	286,780	454,045
Ariz., Cal., Col., Idaho, Mont., Nev., N. Mex., N. Dak., Ore., S. Dak., Utah, Wash., Wyo...	41,348	195,653	237,001
Unspecified	8,252	59,715	67,967
Total	1,606,811	2,953,587	4,560,398

Directors Approve Big Power Deal.

Philadelphia, Pa.—Plans for an exchange of stock with the retention of the corporate identity of each company have been approved by the boards of directors of the United Gas Improvement Company and the Philadelphia Electric Company. It is thought that stockholders will approve the proposed arrangements which will effect a consolidation of property interests in 28 states. As announced several days ago, the \$52,000,000 hydro-electric development under construction at Conowingo, Md., is a project of the Philadelphia Electric Company. The new relations between the two companies will involve an exchange of Philadelphia Electric for United Gas Improvement stock on the basis of two shares of the former for one share of the latter.

Cherokee County, Georgia.

The Canton Chamber of Commerce, Canton, Ga., has published a fine, illustrated booklet of 20 pages which presents "a few facts and figures for the man or woman who stops to consider Cherokee county, Georgia." These data relate to the county's history, location, topography, climate, population, transportation and its communities. It is pointed out that in this county which, it is remarked, is "in the heart of the great Cherokee county" there are abundant opportunities for the homeseeker, the investor, the captain of industry and the tourist. It is a book that is full of interest.

East Texas Iron Ore Fields.

By JOHN H. PURNELL, East Texas Chamber of Commerce, Longview, Texas.

Development of the vast and rich East Texas iron ore fields in the near future has become a significant possibility in view of definite interest evinced in the deposits by capital, both of the Southwest and from outside. Several surveys to determine the extent of the deposits and their accessibility have been made recently, and in at least one case an option on ore land has been taken by a group of capitalists with a view to marketing the ore in Birmingham and Philadelphia, an undertaking which has heretofore proved profitable.

Iron ore deposits are scattered widely over East Texas. Two types of commercial importance—nodular and laminated—are found in great quantities in Anderson, Camp, Cass, Cherokee, Gregg, Harrison, Henderson, Hopkins, Houston, Marion, Morris, Nacogdoches, Panola, Rusk, Sabine, San Augustine, Shelby, Smith, Upshur, Van Zandt and Wood counties. Of these, the deposits in Cass, Cherokee, Marion and Morris present perhaps the greatest possibilities at the present time, as most of the ore lies close to the surface and can be mined easily with pick and shovel. The loose top soil can be scraped away and the limestone cap which is found over most of the fields can be split. Engineers have estimated the cost of mining ore and loading it on railroad cars in this territory at from 75 to 80 cents a ton.

Iron ore is being used largely in East Texas highway construction at present and has been found highly satisfactory as surfacing material. Previous undertakings to duplicate in East Texas the development which has attended the Alabama and Tennessee fields have demonstrated conclusively that East Texas iron ore can be made to pay a profit.

In the summer of 1913, the East Texas Brown Iron Ore Company, with holdings in Marion, Cass and Morris counties of about 30,000 acres, shipped two cargoes of iron ore to the furnaces of the Alan Wood Iron and Steel Company, in Pennsylvania. These shiploads showed a content of 57.45 and 56.03 per cent metallic iron, respectively. All expense in connection with the mining, freighting, and shipping of the ore totalled \$18,954.31. The ore brought \$22,226.25 at the furnaces, leaving a net profit of \$3,271.94, or about 62 cents a ton. The holdings of this company alone—and they make up only a very small percentage of the entire iron ore belt of East Texas—include an estimated quantity of more than 100,000,000 tons.

For years, attempts have been made periodically to work blast furnaces in East Texas, but have met with failure, the chief cause seeming to have been their smallness. It has been demonstrated, engineers hold, that a furnace of less than 300 tons a day capacity cannot succeed in the face of any determined competition.

About 1870 the Lou Ellen furnace was put into blast in Kellyville, Marion county, with a capacity of about 10 tons a day, at first putting out only a soft foundry iron, but later a hard iron, suitable for chilled castings, limestone for the flux being obtained from near Dallas. The Lou Ellen was put into operation by George A. Kelly, founder of the G. A. Kelly Plow Works, which has since become the largest implement manufacturing concern in the Southwest.

In 1891, the Old Jefferson furnace was put into blast, and ran for three years. Rusk boasted of three blast furnaces at one time. The Old Alcalde was put into blast there in 1864, with capacity of 25 tons a day and operated by convict labor. Pig-iron was produced and remelted and cast into iron pipe in a foundry nearby. It was abandoned early in the Twentieth Century, was relined in 1913 by the Texas Iron Association, but was never used. Small furnaces which once dotted East Texas were operated successfully until

they ran afoul of the large Eastern furnaces, with which they could not economically compete.

It is believed now, however, that a furnace of economically efficient size could be successfully operated in this part of Texas, getting its ore from East Texas, its coal from Oklahoma or Alabama and its limestone from Louisiana, Arkansas and Texas, although the problem of coke may be solved in another way, as East Texas has lignite deposits of almost limitless extent. This substance has heretofore been considered impractical for use in connection with ore reduction, because of the peculiar manner in which it breaks down when exposed to the air for an appreciable length of time. However, a new process for retorting lignite and converting it into a lignite char, with two and a half times the breaking strength of charcoal, has been evolved by a Dallas chemist. Whether this process has been perfected sufficiently to permit of its use on a large scale has not been determined.

Test of Pulverized Coal for Mississippi-Warrior Towboat.

Announcement is made of a test on a towboat on the Mississippi-Warrior barge service, between New Orleans and Baton Rouge, in Louisiana, with pulverized coal instead of oil and Maj. Gen. T. Q. Ashburn, executive of the Inland Waterways Corporation, states that a saving of from 30 to 50 per cent is to be noted in the new fuel. Three towboats are now operating on the Warrior river branch of the Mississippi-Warrior service, from Birmingham to Mobile and three from Mobile to New Orleans and all use oil as fuel. Manufacturers of pulverizing and burning machines in Birmingham announce that there is demand for the machines from various sections of the South and that not only the government but others before long doubtless will be substituting crushed coal for oil.

Building Activity at Murfreesboro.

Murfreesboro, Tenn., September 29.

Editor Manufacturers Record:

Murfreesboro is still enjoying prosperity and a consistent growth. A. R. King is building a modern laundry to be equipped with the latest machinery and to involve an expenditure of about \$50,000. A new hotel costing \$125,000 will soon be under way. Last month the Carnation Milk Company and the Rutherford County Creamery paid out approximately \$150,000.

SCOTT WILLIAMS.

Roanoke Sells \$1,300,000 Bonds at Premium.

Improvement bonds in the amount of \$1,300,000 have been sold by Roanoke, Va., P. H. Tucker, city clerk, at \$1,341,600, to E. H. Rollins & Sons, Pulleyn & Co. and Phelps, Fenn & Co., all of New York, and the First National Company of Detroit. The bonds will be issued in denominations of \$1000 each and will bear an interest rate of 4½ per cent. They are as follows: Schools, \$750,000; streets, \$400,000; fire department, \$100,000, and sewers and drains, \$50,000.

Architect for \$300,000 Texas Courthouse.

Eastland, Texas.—The David S. Castle Company, Abilene, Texas, has been commissioned by the Eastland County Commissioners Court to prepare plans and specifications for the new courthouse to be erected here at a cost of \$300,000. Tentative plans call for a five-story and basement building of reinforced concrete, brick and stone construction. Ed S. Pritchard is county judge.

Produce Marketing Association Aids Georgia Farmers.

The Athens Market, Inc., a produce company organized by business men of Athens, Ga., under the direction of the local Chamber of Commerce, last spring, has paid out \$9000 to farmers of the Athens territory for their produce. Fred Voyles, secretary-treasurer of the marketing organization, reports that 118 contracts were made with farmers, and that they grew and sold to the Athens Market the following amounts of produce which were shipped into eight different States:

7000 hampers of beans.
1250 crates of tomatoes.
650 crates of squash.
500 crates of cucumbers.
500 hampers of lima beans.
250 packages of other products.

The company has a capital stock of \$5000 and its directors and officers are: F. C. Neel, Cornelia, Ala., president; W. T. Forbes, vice-president; Fred Voyles, secretary-treasurer; G. A. Booth, M. B. Wingfield, A. Rhodes, L. S. Davis, H. J. Hancock, W. H. Cabniss, J. W. Jarrell, Jr., Abit Nix and M. J. Costa, all of Athens, Ga.

New Power Plant for Magnet Knitting Mills.

Contracts have been awarded by the Magnet Knitting Mills for a new power plant at their mills at Clinton, Tenn., for which the W. E. Biggs Engineering Company of Knoxville is engineer. The Biggs company advises that contracts have been awarded as follows: General construction, Roehl & Gervin, Knoxville; 350-horsepower boiler, Casey-Hedges Company, Chattanooga; underfeed stoker, Biggs Stoker Company, Knoxville; forced draft fan equipment, American Blower Company, Detroit; radial brick stack, 6 by 150 feet, Rust Engineering Company, Birmingham; boiler feed pumps, Worthington Pump and Machinery Corporation, New York. For the time being the plant will supply process steam only at 100-pound pressure.

The Magnet Knitting Mills operate 500 latch needle and 32 full-fashioned knitting machines, 140 loopers, 27 ribbers, bleaching, dyeing and finishing departments for the production of men's and women's high-grade seamless hose and full-fashioned hosiery.

Georgia's Official Register.

Georgia's Official Register, 1927, compiled by Miss Ruth Blair, State Historian and Director of the Department of Archives, Atlanta, has been issued. It has been published in conformity with a law of that State which commands that every two years there shall be compiled a register containing brief sketches of State officials, Georgia members of the Congress, the Supreme Court judges, judges of the Court of Appeals, members of the Senate and House of Representatives, judges and solicitors general of the circuit courts of the State, rosters of all State and county officials, lists of all State institutions, etc.

Canning Industry Solving Surplus Problem.

Marked improvement in the canning industry, burdened with excessive supplies of canned foods, is reported by the Bureau of Agricultural Economics, following the licensing of warehouses in 12 States under the provisions of the United States Warehouse Act.

Reports to the bureau indicate that loans supported by Federal licensed warehouse receipts enable growers to obtain lower interest rates. With proper financing, says the bureau, fewer "distress" packs are hanging over the market, and market conditions are improving materially.

Industrial Accidents Can Be Controlled Disclosed by Nation-Wide Safety Survey.

Industry must be freed from inexcusable wastage, and must no longer accumulate a preventable cost in human lives and curtailed energies, declares the report of the nation-wide safety and production study which has been in progress for more than a year under the direction of the American Engineering Council, New York City.

The engineers found that accidents can be controlled under modern industrial conditions, and that increasing hazard is not inevitable. Labor is disclosed as more productive, and the achievements of industry are called "a source of justifiable national pride."

"When these losses and costs have been eliminated or brought down to the irreducible minimum, then, and then only, will the highest production be secured, the most efficient operation realized," asserts the investigating committee, of which A. W. Berresford of Detroit, past president of the American Institute of Electrical Engineers, is chairman.

The work was directed by Joshua Eyre Hannum of New York, research engineer of the Eye Sight Conservation Council of America. The associate director was P. E. Holden, professor of industrial management in Stanford University.

Members of the main committee, in addition to Chairman Berresford, were:

L. P. Alford, American Society of Mechanical Engineers, New York; C. F. Lowth, Chicago, past president of the American Society of Civil Engineers and chief engineer of the Chicago, Milwaukee and St. Paul Railway; L. W. Hatch, chief of the Statistical Bureau, Department of Labor of New York State; John Price Jackson, New York, former Commissioner of Labor of Pennsylvania; W. W. Nichols, vice-president of the Society of Industrial Engineers; L. A. DeBlois, National Bureau of Casualty & Surety Underwriters, New York, and former safety director of the E. I. du Pont de Nemours & Company; Bradley Stoughton, professor of mining and metallurgy, Lehigh University; Lawrence W. Wallace, Washington, executive secretary of the American Engineering Council.

Furnish 1000 Tons Steel for Reynolds Warehouse.

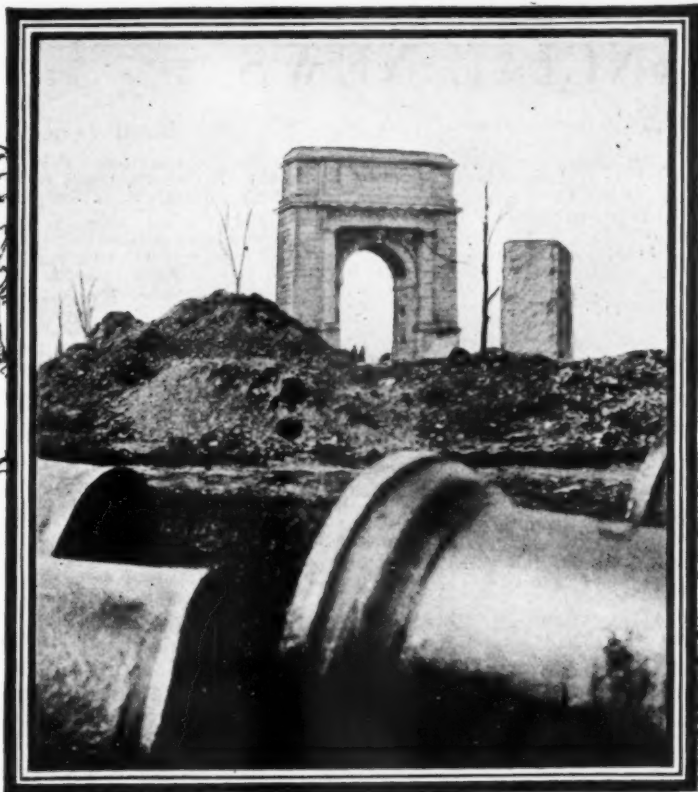
The Carolina Steel and Iron Company of Greensboro N. C., advises that it is furnishing about 1000 tons of structural steel for new warehouses at Winston-Salem, N. C., for the R. J. Reynolds Tobacco Company. The Reynolds company, as previously announced, plans the concentration of some of its manufacturing activities at Winston-Salem by removal of machinery from plants in Jersey City, N. J., and Richmond, Va.

Texas Asks Bids on 11-Mile Road Project.

Austin, Texas.—Sealed proposals will be received until October 10 by the State Highway Commission for the construction of 11.58 miles of highway in Ellis county, to consist of a 3-inch bituminous macadam surface on a 9½-inch limestone base. Plans and specifications are on file at the office of W. A. Spalding, county engineer, Waxahachie, and at the office of the commission at Austin.

\$175,000 Overall Plant for Houston.

Houston, Texas.—Contracts for a \$175,000 overall manufacturing plant are expected to be awarded within a short time by the Cyrus W. Scott Manufacturing Company of this city, at Artesian and Preston streets. It will be 212 by 119 feet, three stories, to contain more than 75,000 square feet of floor space.



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FINANCIAL NEWS

Bond Issues Proposed

Ark., Fort Smith—City Comm., J. H. Parker, Mayor, plans \$308,000 bond election: \$275,000, paving; \$83,000, sewer; \$150,000, city auditorium.

Ark., Pine Bluff—State Debt Board, composed of Governor, Sec. of State, State Auditor and State Treasurer, Little Rock, plans receiving bids for \$275,000 notes toward constructing new buildings at Agricultural, Mechanical and Normal School for negroes at Pine Bluff.

Fla., Fort Lauderdale—Park—City, Glenn E. Turner, Clk., defeated \$140,000 bonds. 9-15

Fla., Moore Haven—Road—Glades County Comms., N. S. Wainwright, Clk., receive bids Nov. 1 for \$300,000, 6%, \$1,000 denom. Special Road and Bridge Dist. No. 11 bonds.

Fla., Panama City—Water Works—City votes Oct. 8 on \$100,000 5% \$1000 denom. bonds. Address City Comm.

Fla., Stuart—School—Jensen School Dist. No. 1 voted \$30,000 bonds; Edward Sapp, Supt. of Public Instruction. 9-22

Fla., Venus—School—Venus School Dist. defeated \$10,000 bond issue. Address Sarasota County Board of Public Instruction. 9-1

Ky., Covington—Water Works Refund—City plans selling at auction, in Oct., \$372,000 bonds. Address City Clk.

Ky., Paducah—City, J. N. Bailey, Mayor, may vote in Nov. on \$450,000 bonds: \$300,000, sewer; \$150,000, street extension and paving.

La., Baton Rouge—State Legislature, considering bill authorizing issuance of \$7,500,000 State bonds to be loaned to various parishes and municipalities in flood district. Address State Treasurer.

La., Many—Road—Sabine Parish Police Jury, J. M. Abington, Sec., receives bids Oct. 26 for \$25,000, not to exceed 6%, Road Dist. No. 6 bonds.

La., New Orleans—Sewerage, Drainage—City plans issuing \$9,000,000 bonds; T. S. Walmsley, Commr. of Public Finance. 9-22

La., New Orleans—City, T. S. Walmsley, Commr. of Finance, requested Legislature to authorize bill for issuance of \$3,000,000 to \$4,000,000 Levee Dist. bonds, to reimburse New Orleans banks.

La., Opelousas—Sewer—City, A. J. Perreault, Mayor, voted \$100,000 bonds; plans selling bonds. 9-15

La., Ponchatoula—Drainage—Gravity Drainage Dist. No. 2, Tangipahoa Parish, voted \$240,000 bonds. Address Parish Police Jury, Amite.

La., St. Martinville—Improvement—Town, Edmund M. Fourmet, receives bids Oct. 10 for \$10,000 6% \$100 denom. bonds.

Md., Westminster—Carroll County defeated \$850,000 bond issue; \$250,000, road; \$600,000, school. Address County Comms.

Miss., Pascagoula—School—City will issue \$17,000, 5½% bonds. Address City Clk.

Miss., Vicksburg—Warren County Board of Suprs. may issue \$200,000 bonds for road work.

Mo., Brookville—Street—City considering \$60,000 bond election. Address City Clk.

Mo., Cabool—Water Works—City plans voting in Oct. on \$40,000 bonds. Address City Clk. 7-28

Mo., Clayton—St. Louis County probably votes Nov. 29 on \$12,750,000 bonds, \$10,000,000 additional roads; \$1,000,000 hospital; \$750,000 jail and additional office space; \$1,000,000 parks and playgrounds. Address St. Louis County Chamber of Commerce, Jos. R. Matthews, Pres. 9-29

Mo., Columbia—City Hall—City votes Oct. 18 on \$375,000 bonds. Address City Clk.

Mo., Ironton—Water Works, Sewer—City, E. L. Newman, Clk., voted \$49,000 bonds. 9-15

Mo., Poplar Bluff—Courthouse, Jail—Butler County votes Nov. 15 on \$265,000 bonds. Address County Clk. 9-15

N. C., Boone—Watauga County Comms., Pearl Hartley, Clk., receive bids Oct. 7 for \$40,000 \$1000 denom. not to exceed 6% bonds: \$28,000, funding; \$12,000, road.

N. C., Hayesville—Road, Bridge Funding—Clay County Comms., Glover P. Ledford, Clk., receive bids Oct. 19 for \$30,000, 6%, \$1,000 denom. bonds.

N. C., Lexington—Davidson County Comms. receive bids Nov. 7 for \$150,000 4½% county bonds; Bruce Craven, Atty., Trinity. 9-29

N. C., Lamberton—Drainage—Robeson Co. Comms. receive bids Oct. 26 for \$90,000 6%

District No. 2 bonds; Bruce Craven, Atty., Trinity.

N. C., Mt. Airy—Water Works—Town, F. M. Poore, Clk., receives bids Oct. 10 for \$195,000, 5%, \$1000 denom. bonds.

N. C., Troy—Montgomery County Comms. receive bids Nov. 7 for \$80,000 4¾ bonds. Bruce Craven, Atty., Trinity.

N. C., Winston-Salem—Incinerator—City, Board of Aldermen plans selling bonds; Capt. Harry Shaner, Commr. of Public Works.

Okla., Muskogee—City Hall—City, Paul Williams, Mayor, will call election on \$300,000 bonds. 9-22

Okla., Sayre—Road—Beckham County voted \$700,000 bonds; Tom Lowry, Clk. 9-1

S. C., Clover—Water Works—City, Thos. T. B. Williams, Clk., voted \$10,000 bonds; C. N. Alexander, Mayor.

Tenn., Bristol—Bridge—City and Sullivan County, W. R. Carron, Recorder, T. J. Burrow, Commr. of Finance, plan receiving bids soon for \$6000, 5%, \$500 denom. bonds. 9-22

Tenn., Covington—Road—Tipton County Quarterly Court considering \$1,000,000 bond issue. Address County Comms.

Tenn., Fayetteville—School—City, Hiram Higgins, Clk., voted \$50,000 5% bonds; M. W. Thornton, Mayor.

Tenn., Huntington—Road—Carroll County voted \$400,000 bonds. Address County Comms. 9-8

Tenn., Sweetwater—School—Monroe County Court, Madisonville, authorized Board of Education to issue \$16,000 warrants to complete Sweetwater High School.

Tex., Beaumont—Jefferson County Comms., Court, B. B. Johnson, County Judge, considering \$4,000,000 bond issue for courthouse, bridge and roads in Precinct No. 1. 9-8-15

Tex., Beeville—Road—Bee County Comms. Court considering \$550,000 bond election. Address County Comms. 7-28

Tex., Clifton—Sewer—City votes Oct. 11 on \$59,000 5% bonds; E. Handley, Mayor.

Tex., Conroe—Montgomery County, W. H. Lee, County Judge, receives bids Oct. 11 for \$130,000 5½% Special Road bonds.

Tex., Edinburg—Road—Hidalgo County Comms. Court may call election on \$4,000,000 bonds. Address County Comms.

Tex., Edinburg—Funding, Improvement—City voted \$200,000 bonds. Address City Clk. 9-22

Tex., Galveston—Road, Bridge—Galveston County, John M. Murch, County Auditor, receives bids Oct. 11 for \$150,000 5% \$1000 denom. bonds.

Tex., Jourdanton—Road—Atacosa County, Dist. No. 3, votes Oct. 29 on \$350,000 bonds. Address County Comms.

Tex., Leakey—Road—Real County Commissioners Court considering bond election.

Tex., Liberty—Road—Liberty County plans bond election. Address County Comms.

Tex., Livingston—Road—Polk County plans bond election. Address County Comms.

Tex., McAllen—Funding—City votes Oct. 25 on \$491,000 bonds. Address City Clk.

Tex., Mexia—City votes on Oct. 27 on \$60,000 bonds; \$50,000, paving; \$10,000, storm sewers. Address, County Comm.

Tex., Newton—Road—Newton County, E. A. Lindsay, receives bids Oct. 11 for \$250,000, 5½%, \$1,000 denom. bonds.

Tex., Port Arthur—School—School Board, L. B. Abbey, Sec., receives bids Oct. 8 for \$1,500,000 Independent School Dist. bonds.

Tex., Port Arthur—School—City voted \$1,500,000 bonds; H. C. Preston, Pres. School Board. 9-22

Tex., Riogrande—Water Control—Starr Co. Water Control and Improvement Dist. No. 1 plans voting soon on bonds for proposed irrigation system. Address County Comms.

Tex., Sherman—School—City, Will Lester, Mayor, voted \$125,000 bonds. 9-1

Tex., Texas City—Building—City, E. L. Noble, Mayor, votes Oct. 29 on \$250,000 bonds: \$100,000, municipal building; \$150,000, school.

Va., Culpeper—Municipal Building—Town, Atwell Somerville, Chm., Finance Committee, receives bids Oct. 24 for \$32,000, 5%, \$1,000 denom. bonds.

W. Va., Charleston—Road—Kanawha Co., Union Dist., plans \$175,000 bond election. Address County Comms.

W. Va., Moorefield—Community Building—Town votes Oct. 8 on \$13,500 bonds. Address Town Clk.

Bond Issues Sold

Fla., Apalachicola—Paving—City Comms. sold \$75,000 6% bonds to Atlantic National Bank, through G. B. Sawyer & Co., at 98.35.

Fla., Avon Park—Street—City, C. A. Crews, sold \$60,000, 6%, \$1,000 denom. bonds to Langston Construction Co., Orlando, at 95 and accrued interest. 9-15

Fla., Chipley—Washington County Court, J. A. Douglas, Clk., sold \$200,000 courthouse bonds to Bank of Chipley at 95; rejected bids for road bonds. 9-29

Fla., Fort Lauderdale—Assessment—City, Glenn E. Turner, Clk., sold \$198,000, 6%, \$1,000 denom. bonds to Spitzer-Rorick Co., Toledo, Ohio, and New York, at par; \$54,000, 6%, \$1,000 denom. bonds to Woods, Hoskins & Young Co., Croissant Park, at par. 9-15

Fla., Marianna—School—First National Bank, Marianna, purchased \$12,000 bonds, at par.

Fla., Madison—School—Madison County School Board sold \$20,000 bonds to Citizens Bank of Madison, at par.

Fla., Orlando—Improvement—City, J. A. Stinson, Clk., sold \$145,000, 5% bonds to Atlantic-Merrill Oldham Corp., Boston, Mass., at \$145,150. 9-15

Fla., Sebring—Highlands County Comms., C. F. Saunders, Clk., sold to Hanchett Bond Co., Chicago, Ill., \$50,000, 6%, \$1,000 denom. courthouse bonds, at 95.05; \$55,000, 6%, \$1,000 denom. funding and road bonds, at 95.05. 9-8

Ga., Acworth—Sewer, Water Works, Light—City sold \$20,000 bonds to J. H. Hillsman & Co., Atlanta, at premium of \$150. 9-22

Ky., Columbia—Road, Bridge—Adair County Comms. sold \$43,000 4½% \$1000 denom. bonds to Caldwell & Co., Nashville, Tenn.

Ky., Hartford—Indebtedness—Ohio County Comms., R. B. Riley, Treas., sold \$100,000, 5½% bonds to J. C. Mayer & Co., Dixie Terminal Bldg., Cincinnati, Ohio, at par and accrued interest.

La., Ferriday—Improvement—Town, Mayor and Board of Aldermen, sold \$20,000 6% bonds to Concordia Bank and Trust Co., Ferriday, at par. 9-1

La., New Orleans—Public Improvement—City, T. S. Walmsley, Commr. of Public Finance, sold \$4,500,000 4½% bonds to syndicate composed of First National Bank, Redmond & Co., R. W. Pressprich & Co., all New York; Halsey, Stuart & Co., Chicago, Ill.; Old Colony Corp., Boston, Mass.; Caldwell & Co., Nashville, Tenn., at 103.74. 9-22

Md., Baltimore—Harbor—City, Municipal Comms. of Finance, A. M. Denhard, City Register, sold \$2,000,000, 4% bonds to Estabrook & Co., 24 Broad St., New York, and Mercantile Trust & Deposit Co., Redwood and Calvert Sts., Baltimore, at 100.913. 9-29

Md., Upper Marlboro—Jail—Prince Georges County sold \$40,000, 4½% bonds to Mercantile Trust & Deposit Co., Baltimore, at 101.57.

Mo., St. Louis—Building and Improvement—City, L. Nolte, Comptroller, sold \$7,861,000 4% bonds to syndicate composed of Kaufman, Smith & Co., St. Louis; Estabrook & Co., Remick, Hodges & Co., R. L. Day & Co., Kountze Brothers, Kenn, Taylor & Co., Hannah, Ballin & Lee and Second Ward Securities Co., all New York; Detroit Trust Co., Detroit, Mich., at \$1,008.50 per bond. 9-15

N. C., Rockingham—Improvement—Town, Zebulon Gibson, Clk., sold \$150,000 5% bonds to A. T. Bell & Co., Toledo, Ohio, at premium of \$2687. 9-15

N. C., Weldon—Water Works—Town, K. Ward, Clk., sold \$15,000, 6%, \$500 denom. bonds to Magnus & Co., 502 Dixie Bldg., Cincinnati, Ohio, at premium of \$6, equal to 100.04.

S. C., Clover—Water Works—City, Thos. T. B. Williams, Clk., sold \$10,000 5½% \$1000 denom. bonds to R. S. Dickson & Co., Gastonia, at \$10.501 and accrued interest.

S. C., Gaffney—Paving—J. H. Hillsman & Co., Atlanta, purchased \$76,500 6% \$500 and \$1000 denom. bonds.

Tenn., Chattanooga—City, E. N. Bass, Mayor, sold \$575,000, 4½%, \$1,000 denom. bonds to Little, Wooten & Co., Jackson, Tenn., at premium of \$22,137. 9-15

Tenn., Nashville—State Funding Board, Frank S. Hall, Sec., sold to National City Co., New York, \$500,000, 4% University of Tennessee bonds at \$500.395; \$1,000,000, ru-

(Continued on page 128)

1,000 Cotton Mills	375 Knitting Mills
66 Woolen & Worsted	42 Silk Mills
51 Dyeing & Finishing	163 Miscellaneous

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WHATEVER line of textile manufacture you are engaged in, you will find plenty of company in the South, where there are more than 1,000 cotton mills, 375 knitting mills, 66 woolen and worsted mills, 42 silk mills, 51 dyeing and finishing plants and 163 miscellaneous textile enterprises.

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Broad River Power Company

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FINANCIAL NEWS

(Continued from page 126)

ral school building and repair bonds, at \$1,000,790. 9-22

Tenn., Springfield—Highway—Robertson County Commr., Byron Johnson, Judge, sold \$455,000 4½% bonds to American National Co., Nashville, at par, accrued interest and premium of \$8500. 9-29

Tex., Amarillo—Indebtedness—City Comm. sold \$350,000, 4½% funding warrants to Brown-Crummer Co., Wichita, Kansas. 9-22

Tex., Graham—Road—Young County sold \$1,075,000, 5%, \$1,000 denom. bonds to Ryan, Sutherland & Co., Ohio Bldg., Toledo, Ohio, at premium of \$25,000, equal to 102.32.

Tex., Refugio—Road—Refugio County, W. T. McGill, County Judge, sold \$300,000, 5½% bonds to Garrett & Co., Dallas, at premium of \$11,750. 9-8

Tex., Tioga—Sewer—City sold \$28,000, 6%, \$1,000 denom. coupon bonds to Garrett & Co., Magnolia Bldg., Dallas, at par.

Tex., Wichita Falls—City, Wm. E. McBroom, Mgr., sold \$214,000, 4½% warrants to Branch-Middlekauf Co., Wichita, Kansas, at 95.62.

Building and Loan Associations

Ky., Louisville—Commonwealth Building Assn., Realty Bldg., Center and Jefferson Sts., capital \$1,000,000 organized; H. W. Hamilton, Pres.; T. N. Williams, Sec.-Treas.; Miss Georgia L. Holliday, Cashier. 9-15

New Financial Corporations

Ark., Little Rock—Union Bond & Mortgage Co., capital \$100,000, incorporated; Clifton H. Scott, George L. Bachelor, 616 E. 7th St., Dr. K. K. Kilbrier.

Ky., Elsmere—Elsmere Savings Bank, capital \$30,000, incorporated; Dr. O. E. Senour, Stanley Christmas, Edward E. Westerman.

Miss., Jackson—Guaranty Bond & Mort-

gage Co., capital \$10,000, incorporated; J. D. Marshall, J. W. McClain.

N. C., Moncure—Bank of Moncure, capital \$25,000, chartered; J. H. Whisler, Pres.; P. V. Budd, Jim Gunter.

Tenn., Atwood—Citizens Bank and Trust Co., capital \$10,000, opened; V. E. Carter, Pres.; A. B. Galey, Vice-Pres.; R. McNatt, Cashier; succeeds Atwood Banking Company.

First Mortgage Bond Co., Inc., Richmond, Va., plans increasing capital \$200,000 to \$400,000.

First National Bank, F. G. Corker, Pres., Dublin, Ga., plans increasing capital \$200,000 to \$300,000.

Mount Vernon Savings Bank, R. G. Donaldson, Chmn. of Board, Wm. Muehleisen, Pres., Ninth and K Sts. N. W., Washington, D. C., plans increasing capital, \$200,000 to \$500,000.

\$1,500,000 Road Bonds Sell at Premium.

Davidson county, Tennessee, has sold a road bond issue of \$1,500,000 at a premium of \$46,744, according to advices from Litton Hickman, county judge, Nashville, who states that the Harris Trust and Savings Bank of Chicago was the purchaser at \$1,546,744. The bonds will bear an interest rate of 4½ per cent.

May Vote November 15 on \$12,750,000 Bonds.

Clayton, Mo.—Plans are being formulated by the board of directors of the St. Louis County Chamber of Commerce to have the county court call an election for November 15 on a proposed bond issue of \$12,750,000 for the construction of roads, hospital, parks and playgrounds. The proposal will soon be submitted to the court under whose authority an election may be called.

Miami to Vote on Bonds for Convention Hall.

Miami, Fla.—An election has been called here for October 27 by the city commissioners on a bond issue of \$800,000 for the erection of a proposed municipal convention hall and for the approval of one of three sites for the building. The construction of an island in the bay near the foot of Flagler street is proposed as one site; property at West Flagler street and the Florida East Coast Railway as another, and a site in Bayfront Park as the third. Edgar C. Faris, recently selected as architect for the structure, has submitted sketches of the proposed sites.

Monroe Water-Works Contracts Exceed \$463,000.

Contracts have been awarded by the city of Monroe, La., for water-works improvements to cost in excess of \$463,000, according to a telegram from W. I. Neel, city engineer, who advises that contract for buildings and structures was awarded to B. E. Buffaloe & Co. of Memphis, Tenn., at \$217,543. Other contracts were awarded as follows:

Filter equipment—Roberts Filter Company, Darby, Pa., \$29,390.

Pumping and electric equipment—Walter Castanedo, New Orleans, \$16,871.

Cast iron pipe—United States Cast Iron Pipe and Foundry Company, Birmingham, \$120,991.

Distribution system—W. H. O'Toole, Alexandria, La., \$39,890.

Two hydrants and valves—R. D. Wood Company, Philadelphia, Pa., \$11,085.

Steel tanks—J. S. Schofield's Sons Company, Macon, Ga., \$27,800.

The Burns and McDonnell Engineering Company of Kansas City, Mo., are engineers for the improvements.

Experimenting in Texas With Candelilla Plant.

Marathon, Texas, October 1—[Special.]—Chemical experiments which have just been made with the candelilla plant, which grows wild upon millions of acres of land in the upper border region of Texas and a large area of Northern Mexico, show that it contains not only high grade wax in large commercial quantities but it may be made the source of a large supply of crude rubber. For more than fifteen years the extracting of wax from the candelilla weed has been carried on extensively both in the Big Bend region of Texas and in the States of Chihuahua and Coahuila, Mexico. Several factories for separating the wax from the fibrous parts of the plants are in operation in this section. In the same big scope of country where the candelilla weed is found, the guayule shrub, from which crude rubber is obtained, grows profusely. For the last 15 years a guayule crude rubber manufacturing plant has been operated here. This plant was constructed by the Continental Rubber Company. The guayule shrubs which go to supply it are obtained largely from lands owned by the State of Texas, the rights to the shrubs having been purchased by the company.

Several experimental plantations of candelilla and guayule have been planted in this part of Texas and in Arizona during the last few years, and the results are said to have been satisfactory. Men who are familiar with the industry declare that the time is not far distant when these two species of wild vegetation will be domesticated in Texas and the Southwest on a scale that will add materially to the supply of high grade wax and crude rubber.

It was discovered that the ashes from the waste or bagasse that comes from the candelilla after the wax has been extracted contains a very large percentage of potash. In its wild state the weeds give yields of three-fourths to four tons per acre. The candelilla weed is a perennial, and a new crop from the roots is produced in 14 to 16 months after each harvest. There is a candelilla wax refinery in San Antonio, to which the raw product is shipped. The refined wax is marketed in New York and Hamburg principally, it is stated.

Contract for \$300,000 Hotel in Texas.

Wyatt C. Hedrick of Fort Worth, Texas, architect for a proposed \$300,000 hotel to be erected at Eastland, Texas, by Jesse H. Jones of Houston, and associates, advises that the general contract has been awarded to the Bellows-MacLay Construction Company of Dallas. The building will be of reinforced concrete with walls of face brick and tile backing and stone trim. It will be seven stories and basement and will contain approximately 100 rooms, each with bath or shower.

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Dairying Development and Extension of Cheese Factories in Mississippi.

Mississippi State Board of Development.

Jackson, Miss., September 22.

Editor Manufacturers Record:

I thank you for your letter in regard to the five cheese factories to be established in South Mississippi by X. A. Kramer of McComb, who is one of our directors. He is one of the most progressive men in Mississippi and is now in Wisconsin studying the dairy developments of that State. He will go ahead with his program as outlined in the news item in the MANUFACTURERS RECORD. He has already had shipped the machinery for one of his plants.

The Kraft Cheese Company of Chicago has opened its plant at Durant, Miss., with a celebration there on September 15. They are now building a plant at Louisville, Miss., and contemplate constructing five or six more plants in this State.

The manufactured dairy products of Mississippi for 1927-1928 I believe will exceed the total value of dairy products of the State for the past 20 years. The Pet Milk Company is building a plant at Kosciusko. The Borden Milk Company, which has a large plant at Starkville, is building an additional plant at Macon, Miss., and from all indications by the close of 1928 we will have at least 15 cheese plants and three or more condenseries in Mississippi.

We attribute the favorable notice we are receiving as a dairy State largely to the attitude of the MANUFACTURERS RECORD in helping us present our dairying opportunities to the world. The Development Board modestly claims credit for the advent of the cheese industries especially and for the sentiment which now prevails for the stock law passed by the last session of our Legislature after a five year campaign. Louisiana is engaged in a program to bring about the adoption of a similar stock law in that State. There is no such thing as permanent tick eradication without the stock law and the South is at last coming to realize that without such a law, strictly enforced, we can have no dairy industry of any consequence.

L. J. FOLSE.

Construction Begins on Houston Air Port.

In a letter to the MANUFACTURERS RECORD, Ike Ashburn, vice-president and general manager of the Chamber of Commerce, Houston, Texas, advises that construction has begun on the Houston air port and that it will be completed by November 1. The field is 2800 by 2800 feet, located nine miles from the center of Houston on the Alvin road and is connected by bus line with the city. The port will be owned by the W. T. Carter Lumber and Building Company, Houston, the city having leased the property for the free use of the field, hangars and other facilities, for all municipal, State and Federal ships, including air mail planes. At the south end of the field, headquarters of the 36th Division, Aero Squadron, will be established, facilities to include three hangars, administration building and warehouse. All other hangars will be at the north end of the field. In addition to those for Government planes, facilities will also be provided for commercial ships, and buildings will be erected on contract with agencies which may want to come in. The field is hog backed, well drained, plowed, graded and rolled and a Bermuda turf will cover it. Another field of like dimensions is available for use as the growth of aerial navigation may demand expansion.

\$2,000,000 Port Bonds Sold by Baltimore.

An issue of \$2,000,000 City of Baltimore port development bonds have been sold by the Municipal Commissioners of Finance to Estabrook & Co., New York, and the Mercantile Trust and Deposit Company of Baltimore, on a bid of 100.913. The bonds will mature from 1930 to 1957, inclusive.

\$575,000 Chattanooga Bonds Bring Premium.

Chattanooga, Tenn.—Refunding bonds of this city in the amount of \$575,000 have been sold to Little, Wooten & Co., Jackson, Tenn., at a premium of \$22,137. The bonds will be issued in denominations of \$1000 and will bear an interest rate of 4½ per cent.

New Roanoke Church to Cost \$350,000.

B. F. Moomaw, secretary of the Chamber of Commerce, Roanoke, Va., advises that the First Baptist Church of that city plans to erect a new building immediately across Roanoke street from its present building at a cost of approximately \$350,000, including the cost of the site. An architect for the building will probably be engaged within the next few weeks. R. H. Angell is chairman of the building committee.

Louisiana Asks Bids on 24 Miles Roads.

Baton Rouge, La.—Bids will be received until October 18 by the Louisiana Highway Commission for three road projects covering a total of approximately 24 miles and including 21.87 miles of gravel highways and 2.15 miles of embankment. The former will embrace 14.75 miles in Bossier parish and 7.12 miles in Natchitoches parish, while the embankment project is located in St. Tammany parish, on the Chef Menteur Highway. It will begin at the northeast end of the Rigolets Bridge and extend to an intersection with a gravel road near Salt Bayou. Estimated quantities for its construction include 1,082,723 cubic yards of excavated material and 782,339 cubic yards of hydraulic backfill.

Co-Operative Lumber Trade Extension Campaign.

A major national co-operative trade extension campaign has been undertaken by the National Lumber Manufacturers Association with general offices in Washington, D. C. Under the auspices of the association, about 300 leading softwood and hardwood distributors in the United States and British Columbia have subscribed \$1,000,000 per year for five years for a united drive in the interest of lumber in competition with other building and industrial materials. The campaign will include scientific research bearing on reforestation, employment of hitherto neglected species of trees, economical utilization and such problems as the prevention of decay and rendering woods fireproof or fire-resistant. Research work will also extend into the manufacturing and merchandising fields of the industry. Divisional trade extension offices are being established at Chicago, New York and San Francisco and some 15 field offices will be opened in as many other cities.

West Florida Power Company's Development on Ocklocknee River.

Regarding its hydro-electric development on the Ocklocknee River, near Tallahassee, the West Florida Power Company of St. Petersburg wires from Tallahassee: "The General Engineering and Management Corporation, New York, is building for the West Florida Power Company a hydro-electric plant on the Ocklocknee River, consisting of power house, concrete spillway and earth dam one mile long. The impounded area will cover 13,000 acres. The Newport News Shipbuilding and Dry Dock Company, Newport News, Va., is furnishing three water turbines; Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa., is furnishing three generators with combined capacity of 12,000 KVA. The Hardaway Contracting Company of Columbus, Ga., is the general contractor and Mees & Mees, Inc., of Charlotte, N. C., are engineers and designers. Work is progressing favorably, the earth dam and concrete spillway now being constructed."

1884

Southern men and women who lived in, or visited Baltimore in the period when this Company was established—which was the year of 1884—will be interested, we believe, in our anniversary book "The Early Eighties: Sidelights on the Baltimore of forty years ago." A copy will be sent upon request.

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*H. A. Minton, Architect
McDonald & Kahn, Contractor*

Plans for Expansion of Salisbury Gas Plant.

Salisbury, Md.—Plans for developing the gas system serving Salisbury and Delmar, Md., and Delmar, Del., are now being worked out by officials of the Southern Cities Utilities Company of Philadelphia, following that company's acquisition of the Citizens Gas Company of Salisbury. Development plans contemplate the reduction of rates and the extension of the system to supply other towns from the Salisbury plant, in order that gas service may be made available to additional homes and industries in the Delmarva peninsula. The system has a modern water gas plant and more than 27 miles of distribution mains, serving a population of about 12,000.

New officers of the Citizens Gas Company are Walter Whetstone, president; H. W. LeBoutillier, vice-president; Ferdinand H. Graser, secretary; R. M. Fries, treasurer, and E. L. Fortin, assistant secretary and assistant treasurer. Other directors are C. F. Munder of Hagerstown, Md., and John S. Short of Baltimore.

Virginia Road and Bridge Contracts Exceed \$414,000.

Richmond, Va.—Contracts have been awarded by the State Highway Commission for the construction of eight road and bridge projects to cost more than \$414,000. Road work will include two projects calling for a total of 1.9 miles of bituminous macadam to cost \$96,852; three projects covering a total of 11.96 miles of grade and drainage construction, \$226,999, and one project calling for 5.5 miles of gravel to cost \$69,389. Bridge projects call for a reinforced concrete structure in Bedford County to cost \$15,384 and one in Smith County to cost \$5473.

Five Coming Bond Sales in North Carolina Total \$545,000.

Bruce Craven of Trinity, N. C., serving as attorney in connection with several proposed bond issues in North Carolina, advises that the following sales will be made:

City of Hickory, \$200,000, 4¾ per cent, date of sale October 19.

Drainage district, Robeson county, Lumberton, \$90,000, 6 per cent, October 26.

Davidson county, Lexington, \$150,000, 4½ per cent, November 7.

Montgomery county, Troy, \$80,000, 4¾ per cent, November 7.

Town of Columbus, \$25,000, 6 per cent, October 3.

St. Louis Sells \$7,861,000 Improvement Bonds.

L. Nolte, city comptroller of St. Louis, wires that the city has sold \$7,861,000 public improvement, 4 per cent bonds at \$1008.50 per bond of \$1000. The purchase was made by a syndicate composed of Kaufman, Smith & Co., St. Louis; Estabrook & Co., Remick, Hodges & Co., R. L. Day & Co., Kountze Brothers, Kean, Taylor & Co., Hannah, Ballin & Lee and the Second Ward Securities Company, all of New York, and the Detroit Trust Company of Detroit, Mich.

The city of Punta Gorda, Fla., has sold \$60,000 of funding bonds and \$112,000 of refunding paving bonds to Farson, Son & Co., New York, at par, both issues to bear a 6 per cent interest rate.



— PROPOSALS —

BOND ISSUES BUILDINGS PAVING GOOD ROADS



Bids close October 19, 1927.

\$30,000 6% Road and Bridge Bonds

CLAY COUNTY, NORTH CAROLINA
Hayesville, N. C.

Sealed bids, addressed to the undersigned, will be received by the Board of Commissioners of Clay County at the office of the County Commissioners at the Courthouse, Hayesville, North Carolina, until the 19th day of October, 1927, at 11 o'clock A. M., for the purchase of \$30,000 Road and Bridge Funding Bonds of Clay County, North Carolina, dated October 1, 1927, of the denomination of \$1000 each, maturing \$2000 in each of the years 1928 to 1942, inclusive, and bearing interest at the rate of six (6%) per centum per annum, payable semi-annually April 1 and October 1. Coupon bonds, principal and interest payable in gold coin or lawful money of the United States of America at the Hanover National Bank, New York, New York. These bonds are issued pursuant to the County Finance Act of North Carolina and will be sold for not less than par.

A certified check, payable to the order of the Board of Commissioners of Clay County, for two per cent of the amount of bonds bid for must accompany each bid. The right is reserved to reject all bids.

The approving opinion of Messrs. Clay, Dillon & Vandewater, Attorneys, of New York City, will be furnished to the purchaser without charge.

Dated September 29, 1927.

GLOVER P. LEDFORD.

Clerk of the Board of Commissioners,
Clay County, North Carolina.

RATE: 35 cents per line per insertion.

PUBLICATION DAY: Thursday.

FORMS CLOSE: 4 P. M. Monday.

DAY LETTER: When too late to send copy by mail to reach us by 4 P. M. Monday, forward by day letter.

THE DAILY BULLETIN OF THE MANUFACTURERS RECORD: Published every business day; gives information about the industrial, commercial and financial activities of the South and Southwest.

The Daily Bulletin can be used to advantage when copy cannot reach us in time for publication in the Manufacturers Record before bids are to be opened, or when daily publications are necessary to meet legal requirements.

The same rate applies—35 cents per line per insertion.

Bids close October 24, 1927.

TREASURY DEPARTMENT, office of the Supervising Architect, Washington, D. C., October 3, 1927.—SEALED BIDS will be opened in this office at 3 P. M. October 24, 1927, for new mezzanine and changes in second floor at the U. S. P. O., El Paso, Texas. Drawings and specifications may be obtained from the custodian or at this office, in the discretion of the Supervising Architect. JAS. A. WETMORE, Acting Supervising Architect.

Bids close October 10, 1927.

\$55,000 5% School Funding Bonds

Warrenton, N. C.

Sealed bids, addressed to the undersigned, will be received by the Board of Commissioners of Warren County at the office of the County Commissioners at the Courthouse in Warrenton, North Carolina, until the 10th day of October, 1927, at 11 o'clock A. M., for the purchase of \$55,000 School Funding Bonds of Warren County, N. C., dated July 1, 1927, of the denomination of \$1000 each, maturing \$5000 on July 1 in each of the years 1928 to 1936, both inclusive, and \$10,000 on July 1, 1937, and bearing interest at the rate of five per centum per annum, payable semi-annually January 1 and July 1. Coupon bonds, principal and interest, payable in lawful money at the Hanover National Bank in the City and State of New York. These bonds are issued pursuant to the County Finance Act of North Carolina.

A certified check payable to the order of the Board of Commissioners of Warren County for two per cent of the amount of bonds bid for must accompany each bid. The right is reserved to reject all bids. The approving opinion of Messrs. Clay, Dillon & Vandewater, attorneys, of New York City, will be furnished to the purchaser without charge. Dated September 5, 1927.

S. M. GARDNER,

Clerk of the Board of Commissioners,
Warren County, North Carolina.

Bids close October 11, 1927.

Proposals will be received by the Bureau of Supplies and Accounts, Navy Department, Washington, D. C., until 10 o'clock A. M. October 11, 1927, for delivering nitric acid retorts, bars and plates for Downington Beater to the Naval Powder Factory, Indian Head, Md. Apply for proposals to the Bureau of Supplies and Accounts. CHARLES MORRIS, Paymaster General of the Navy.

Bids close November 7, 1927.

Office of the Executive Officer, Arlington Memorial Bridge Commission, Navy Building, Washington, D. C. Sealed bids will be received at this office until 11 A. M. (Standard Time), November 7, 1927, and then publicly opened in Room 1613 Navy Building, for the construction of the superstructure (exclusive of the bascule draw span) of the Arlington Memorial Bridge. Further information upon application.

Bids close October 14, 1927.

\$250,000 6% Bonds

Fort Lauderdale, Fla.

Sealed bids will be received by the undersigned at the office of the Superintendent of Public Instruction of Broward County, Florida, in Fort Lauderdale, Florida, on or before the 14th day of October, 1927, at 2 o'clock P. M. for TWO HUNDRED FIFTY THOUSAND (\$250,000) DOLLARS six per cent bonds of the BOARD OF PUBLIC INSTRUCTION of Broward County, Florida. These bonds are each in the denomination of One Thousand (\$1000) Dollars, dated October 1, 1927, interest payable semi-annually on the first days of October and April of each year. The serial numbers of the bonds to be sold under this advertisement and the date of maturity of the principal of each are as follows:

Numbers 1 to 10, inclusive, shall mature and be payable on October 1, 1930; numbers 11 to 20, inclusive, shall mature and be payable on October 1, 1931; numbers 21 to 30, inclusive, shall mature and be payable on October 1, 1932; numbers 31 to 40, inclusive, shall mature and be payable on October 1, 1933; numbers 41 to 50, inclusive, shall mature and be payable on October 1, 1934; numbers 51 to 65, inclusive, shall mature and be payable on October 1, 1935; numbers 66 to 80, inclusive, shall mature and be payable on October 1, 1936; numbers 81 to 95, inclusive, shall mature and be payable on October 1, 1937; numbers 96 to 110, inclusive, shall mature and be payable on October 1, 1938; numbers 111 to 125, inclusive, shall mature and be payable on October 1, 1939; numbers 126 to 140, inclusive, shall mature and be payable on October 1, 1940; numbers 141 to 155, inclusive, shall mature and be payable on October 1, 1941; numbers 156 to 170, inclusive, shall mature and be payable on October 1, 1942; numbers 171 to 185, inclusive, shall mature and be payable on October 1, 1943; numbers 186 to 200, inclusive, shall mature and be payable on October 1, 1944; numbers 201 to 215, inclusive, shall mature and be payable on October 1, 1945; numbers 216 to 230, inclusive, shall mature and be payable on October 1, 1946; numbers 231 to 250, inclusive, shall mature and be payable on October 1, 1947; the principal and semi-annual interest shall be payable at the Hanover National Bank, New York City, New York.

All bids must be accompanied by a certified check for two (2%) per cent of the amount bid.

The Board will furnish at its own expense legal opinion of Caldwell & Raymond approving the legality of bonds. Proceedings for the validation of these bonds are now being taken.

The right to reject any and all bids in the interest of said Board of Public Instruction of Broward County, Florida, is hereby reserved.

BOARD OF PUBLIC INSTRUCTION OF BROWARD COUNTY, FLORIDA.

By JAMES S. RICKARDS,

Secretary.

McCUNE, CASEY,
HIAASEN & FLEMING,
Attorneys.

Bids close October 18, 1927.

Virginia Highway Work

Richmond, Va.

The Commission will receive bids on:
Proj. Length Type
S156B 2.2 Mi. Concrete.
S409B 8 Cluster Piles in Rappahan-
nock River (50,000 lin.
ft. total).
S497C 0.64 Mi. Bit. Mac.
Details obtainable on request.

Bids close October 11, 1927.

Concrete Highways

DEPARTMENT OF PUBLIC WORKS
STATE OF MARYLAND
STATE ROADS COMMISSION
NOTICE TO CONTRACTORS

Baltimore, Md.

SEALED PROPOSALS for building two sections of State Highway as follows:
Montgomery County, Cont. M-86—One section of State Highway along the Sixteenth Street-Baltimore Boulevard for a distance of 0.11 mile. (Concrete.)
Wicomico County, Cont. W-45—One section of State Highway from Sharptown to the Delaware State Line, a distance of 0.3 mile. (Concrete.)

will be received by the State Roads Commission at its offices, 601 Garrett Building, Baltimore, Maryland, until 12 M. on the 11th day of October, 1927, at which time and place they will be publicly opened and read. Bids must be made upon the blank proposal form which, with specifications and plans, will be furnished by the Commission upon application and cash payment of \$1.00, as hereafter no charges will be permitted.

No bids will be received unless accompanied by a certified check for the sum of Five Hundred (\$500) Dollars, payable to the State Roads Commission. The successful bidder will be required to give bond and comply with the Acts of the General Assembly of Maryland respecting contracts.

The Commission reserves the right to reject any and all bids.

BY ORDER of the State Roads Commission this 30th day of September, 1927.

JOHN N. MACKALL, Chairman.

L. H. STEUART, Secretary.

Bids close November 1, 1927.

Drainage Work

Sanford, Fla.

Sealed proposals will be received by the Supervisors of the Slavia Drainage District, Seminole County, Florida, at the office of the Secretary, Sanford, Florida, at or before 10 A. M. November 1, 1927, for the construction of a drainage system for the Slavia Drainage District, Seminole County, Florida.

The work consists of approximately 5 miles of canal, 99,000 cubic yards and lateral ditches, 42,500 cubic yards.

Plans and specifications are on file at the offices of the Secretary to the Supervisors of the Slavia Drainage District, 116 South Park Avenue, Sanford, Florida, and Fred T. Williams, Chief Engineer, Sanford, Florida. Copies may be obtained from the Chief Engineer on payment of \$5.00.

Proposals must be accompanied by a certified check, made payable to P. Bayard Smith, Secretary of the Supervisors of Slavia Drainage District, or a bidder's bond for an amount equal to 3% of the total amount of the bid. Awarding of the work will be subject to the sale of bonds by the district to defray the cost of the work.

The successful bidder will be required to give a surety bond, approved by the Supervisors of the Slavia Drainage District, for an amount equal to 50% of the amount of the bid.

The Supervisors of the Slavia Drainage District reserve the right to reject any or all bids.

CHAS. L. WEST,

Chairman, Supervisors of
Slavia Drainage District.
P. BAYARD SMITH, Secretary.

Bids close November 1, 1927.

**For Sale
Municipal Electric Plant and
Water-Works and Franchise
for Same**

The Council of the town of Shenandoah, Page County, Virginia, has decided to offer the aforesaid properties for sale, together with a franchise for the use of the streets and alleys of the town for the purposes of said plants.

Sealed bids will be received for said properties and franchise up to 12 o'clock M. of Tuesday, November 1, 1927, by which time all bids must be in the hands of W. T. Koontz, Mayor.

The town of Shenandoah is situated on the Shenandoah River, and is a prosperous growing town of about 2500 inhabitants.

A copy of the ordinance containing the terms and conditions of sale will be furnished to prospective bidders on application to J. F. Bumgardner, Clerk of the Council.

The right is reserved to reject any or all bids.

W. T. KOONTZ,
Mayor of the town of
Shenandoah, Virginia.

Bids close November 10, 1927.

Garbage Incinerator

Richmond, Va.

SEALED PROPOSALS WILL BE RECEIVED AT THE OFFICE OF THE DIRECTOR OF PUBLIC WORKS, RICHMOND, VA., UNTIL 3 O'CLOCK P. M. November 10, 1927, for the furnishing and installing Garbage Incinerator, including necessary alterations to present building and removal of present incinerator. Capacity to be 100 tons per 24 hours; two units.

Form of Proposal, Plans and Specifications can be obtained on application.

A CERTIFIED CHECK for the amount stated (\$2500) on proposals must accompany each bid as a guaranty of execution of contract. The Director of Public Works reserves the right to reject any and all bids.

R. KEITH COMPTON,
Director Public Works,
City Hall.

Bids close October 14, 1927.

Filter Plant Equipment

Cocoa, Fla.

Bids will be received at the office of the Mayor, Cocoa, Florida, until 2 P. M. October 14, 1927, and then opened, for furnishing the following material and equipment for construction of Filter Plant:

2 500 G.P.M. Centrifugal Pumps.
1 250 G.P.M. Centrifugal Pump,
4 120 G.P.M. Triplex Pumps.
2 40 H.P. Electric Motors.
1 7½ H.P. Electric Motor.
4 3 H.P. Electric Motors.
1 Elevator.
27,000 Common Brick.
700 Tons Crushed Stone or Washed Gravel.
300 Cu. Yds. Concrete Sand.
900 Bbls. Portland Cement.
98,600 Lbs. Reinforcing Bars.
1 Flow Meter.
1 Chlorinator.
3 Dry Feed Machines.
3 Loss of Head Gauges.
3 Cast-iron Manifolds.
3 Rate Controllers.
1 Laboratory Equipment.
1 30,000-Gallon Steel Tank on 40-foot Tower.
Cast-iron Pipe and Fittings.
Valves.
2 500 Sq. Ft. ¼-Inch Transite.

Specifications and bid sheets will be furnished on application to the City Clerk or the Construction Engineers.

The city reserves the right to reject any and all bids.

THE CITY OF COCOA, FLORIDA.
F. H. McFARLAND, Mayor.
H. G. BRUNSON, Clerk.
J. B. McCRARY ENGINEERING
CORPORATION,
Construction Engineers,
Atlanta, Georgia.



CLASSIFIED OPPORTUNITIES



MINERAL AND TIMBER LANDS, WATER POWER, MISCELLANEOUS PROPERTIES

HAVE 2 forty-acre, semi-proven oil leases. Will sell one-half interest for \$12,000 and drill 2 wells with money. Production 1000 feet. J. A. LOCKETT, Marlin, Texas.

MINERAL LANDS for sale and lease. Marble, Talc, Kaolin, Ochre and Copper deposits located in the States of Georgia, North Carolina and Tennessee.

M. W. SHAFFER,
641 North Seventh Street, Allentown, Pa.

FOR SALE—Large bed of high-grade Bronze Ochre. 100 yards of R. R. Analysis over 20% oxide iron; also 40 acres valuable R. R. frontage in yard limits, admirably located for any manufacturing purpose, on bus line; hard road and near street car. Taxes very cheap. High-power wire on property. If interested in either proposition write to OWNER, Room 403 Krise Building, Lynchburg, Va.

SAND AND GRAVEL PROPOSITIONS

34 ACRES Sand and Gravel, Philadelphia Road, at City Limits; one of the largest and best propositions in the State. H. L. Thomas, 505 W. Redwood St., Baltimore, Md.

LIMESTONE DEPOSITS

FOR SALE—Limestone Deposits, unlimited supply, near Hawkinsville, Ga.
ROBT. S. ANDERSON,
Hawkinsville, Ga.

CHINA CLAY LANDS

FOR SALE—360 acres of the famous Chalk Bluff China Clay lands of Marion County, Ala. Pronounced by our State geologist to be the finest china clay in Alabama. Address C. D. LONG, Jasper, Ala.

COAL AND TIMBER LAND

THE STRIKE in the Union Coal Fields means a very profitable business for West Virginia. I have several very desirable coal-mining properties for sale in the Fairmont District.

G. B. HARTLEY,
Fairmont, W. Va.

TIMBER AND TIMBER LANDS

TIMBER FOR SALE—About 1,500,000 ft. virgin pine and hardwood for sale, located Leon County, Florida. C. L. HOLMAN, Box 172, West Palm Beach, Florida.

FOR SALE—2200 acres woodland, sawmill and turpentine timber, natural reforestation in pine. Write for full description. Box 15, Sumter, S. C.

FARM, FRUIT AND TRUCK LANDS

ALABAMA

120-ACRE Alabama Mountain Farm, house, barn, orchard, spring water; suitable for stock raising, dairy or poultry. Price \$800.
W. D. SMYTH,
Box 538, Gaffney, S. C.

FLORIDA

"FLORIDA BOUND."
If you enjoy Life, you'll Love FLORIDA; "everybody" is going to FLORIDA this season—some for its Superb Climate, others to make safe and solid investments now, while it's still "bargain time," and return later to live; others to buy an inexpensive little home, Poultry Ranch, Truck Farm or Grove and "take life easy." We can "fit you up." Send today for booklet and list. TAMPA-WEST COAST REALTY CO. (INC.), Realtors, Opp. P. O. "Since Before the War," Tampa, Florida.

RATES AND CONDITIONS

Rate 30 cents per line per insertion. Minimum space accepted, four lines. In estimating the cost allow seven words of ordinary length to a line. *When the advertisement contains a number of long words proper allowance should be made.* Terms: Invariably cash with order; check, postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, oil or mining stock advertisement accepted. Rate for special contracts covering space used as desired within one year as follows: 100 lines, 28c per line; 300 lines, 26c per line; 500 lines or more, 25c per line.

FARM, FRUIT AND TRUCK LANDS

GEORGIA

FARM FOR SALE—The Underwood & Rose Farm, three miles southwest of Ty Ty, in Worth County, Georgia.

Containing eleven hundred forty and one-half (1140½) acres. Finest pebbled clay farm in Georgia; in a high state of cultivation. Five to six hundred acres cleared; three hundred fifty acres stumped.

The place has twenty-two or twenty-three curing tobacco barns on them and four tobacco-pack barns, and twelve or thirteen dwelling or tenant houses, fifteen or twenty shacks, or residences for common labor; fourteen head of fine mules and one farm horse; about one hundred fifty tons of fine pea-vine hay and about twenty-five hundred bushels of corn; also about \$3000 worth of farm implements; about twenty head of Duroc Jersey brood sows and two fine males.

Will sell mules, hay, corn and farm implements with or separate from place.

Will sell at private sale as whole or will sell in fifty to one hundred acre tracts. Will want a good, substantial cash payment on it.

Write me at Valdosta, Ga., or see Henry Underwood at farm. This farm is an ideal investment for a person with money.

E. P. ROSE.

NORTH CAROLINA

If interested

FOR HOME OR FOR INVESTMENT
In the great and rapidly developing
STATE OF NORTH CAROLINA,
especially in its leading city, Charlotte, or
in a Southern Cotton Mill or Southern Mill
Stocks, write to

F. C. ABBOTT & CO.,
Realtors and Investment Bankers
Nearly thirty years in Charlotte.

TEXAS

"TEXAS 'WINTER GARDEN'
LANDS."

A subdivision in 20-40 acre tracts, cleared and irrigated; suitable for Citrus Fruits, Winter Vegetables, Staple Crops. Reasonable prices. INVESTIGATE our proposition TODAY.

BERMUDA LANDS COMPANY, Realtors,
501-4 Houston Building,
San Antonio, Texas.

VIRGINIA

NEAR MOB JACK BAY, on North River, Gloucester County, Virginia, one of the handsomest water-front country estates in Virginia; beautiful grounds, a fourteen-room mansion house, sold by experts to be a perfect piece of architecture; shooting, fishing, boating all that could be desired. Send for photographs and detailed description.

POLLARD & BAGBY, INC.,
Farm Department,
1009 East Main Street,
Richmond, Va.

FARM, FRUIT AND TRUCK LANDS

VIRGINIA

RICH INVESTMENT—1500-A. James River Plantation, \$65,000; third down. Five miles sandy beach, 3,000,000 ft. timber; 400 A. near above, \$45,000. W. T. Bailey, Suffolk, Va.

FULLY EQUIPPED and highly improved James River Valley stock farm close to Richmond, Va.; over 2000 head of prize stock. Land is rich, level and river never overflows. Write for photos and full description, price, terms, etc. LAFAYETTE MANN, 803 East Main St., Richmond, Va.

BUSINESS OPPORTUNITIES

COCA-COLA BOTTLING PLANT located in mid-western city. Direct franchise. Modern plant. Surfaced roads. Will bottle 5000 gallons Coca-Cola and gross 60,000 cases this year. Price \$35,000. Address No. 6722, care Manufacturers Record.

AN OPPORTUNITY.

I want party to join in the curing and packing of hams. Have fine plant, with trade established, and am curing a first-class Green Hickory Wood-Smoked Ham, strictly Country Style. Need \$30,000 more working capital. Good opportunity for investment and an opening for party to become active in growing, safe business. References required and given. Address No. 6797, care Manufacturers Record, Baltimore, Md.

FINANCIAL

WANTED—Money for first-mortgage loans on residential and business property in City of Tampa, Fla. P. O. Wall, P. O. Box 3112, Tampa, Fla.

INDUSTRIES WANTED

WINCHESTER, VIRGINIA, wants factories. Plenty reasonable labor and city will give many concessions. Ideal climate and railroad facilities. Address City Manager.

INDUSTRIES WANTED—Trunk-line railway, hard roads, quantities raw material. Low tax and power rate; no State or county bonds. Free town tax for period of years. Some capital furnished. Plenty cheap labor; no unions. Write for interview.

L. CRAWLEY, President,
Chamber of Commerce, Appomattox, Va.

FACTORY SITES

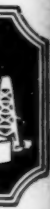
FOR SALE—Four acres at Jackson, Miss., on I. C. R. R., including small dimension mill. Ideal location in large railroad center and growing city for small mill, veneer or yard. Unlimited logs and blocks available. HOOPES, BRO. & DARLINGTON, INC.,
West Chester, Pa.

RICHMOND, VA.—For sale, sites for industrial plants or warehouses, with or without trackage; most any size; 5 trunk-line railroads, all directions; water transportation direct to New York, with New England connections. Labor plentiful and peaceable. Local transportation covers city and suburbs for 10 to 20 miles. Talk to us. Richmond Trust Co., Real Estate Department, P. O. Box 1555.

FOR SALE—A Real Bargain. Over 3500 acres of land, a desirable location for an industrial town, located on 4 railroads, State concrete boulevard; has high-tension electric line, cheapest current in the South, 2 water mains and other attractive advantages. Send for map showing location.

J. D. STONE, Owner,
P. O. Box 438,
Norfolk, Virginia.

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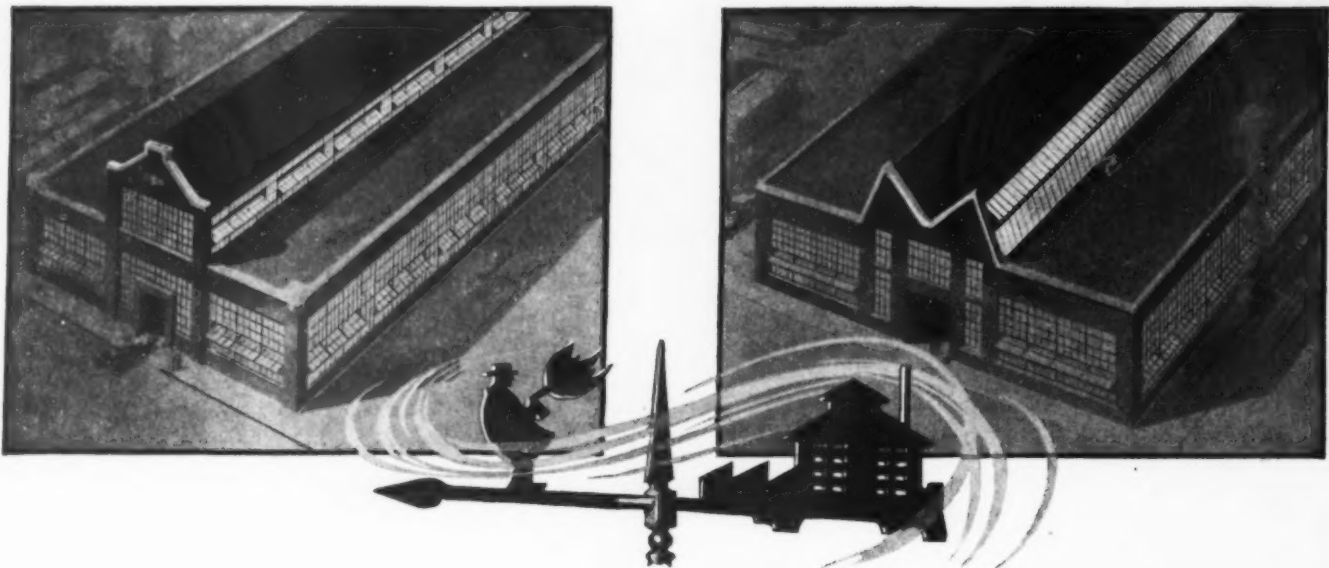
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How does monitor design affect natural ventilation?

Now you can eliminate much of the guesswork in determining the natural ventilation of your new buildings — while your building plans are in process. A method developed for and used by the Department of Engineering Research of this company makes it possible to predetermine with considerable accuracy the answers to such important questions as the following:

1. How does a monitor contribute to the natural ventilation of a building?
2. How does the orientation of the monitor with reference to the prevailing winds affect the ventilation?
3. How do monitor width and height affect ventilation?

4. Does the slope of the monitor roof influence the ventilation?

5. How does the degree of opening of the monitor windows vary the air circulation?

6. Does the type of window used affect the ventilation? In other words, is there any advantage in using top-hung windows, rather than center-pivoted, or vice versa?

7. What conditions determine whether windows should be opened on both sides of the monitor or on only one side, and how is the one side determined?

For answers to these questions or any individual problems relating to both the ventilating and lighting of your new buildings —

Ask *Fenestra*

DETROIT STEEL PRODUCTS COMPANY / 2248 East Grand Boulevard / DETROIT, MICHIGAN

What can you tell me about securing the most satisfactory natural ventilation in the building described below?

Type of building contemplated: Single Story.....
Multi-story.....To be used for the following purposes.....

Name of Company..... Your Name.....

Address..... City..... State.....

Length.....Width.....Height.....
Note: If possible, send tentative plans, elevations, sections or sketches showing size and location of all proposed windows with sill heights, together with any additional information which would have a bearing upon the design of the structure to be erected.

